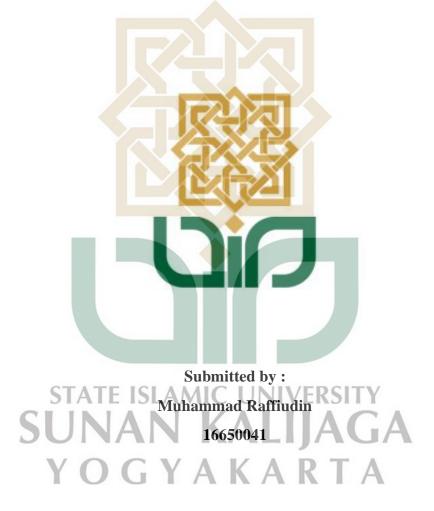
COMPARATIVE STUDY OF WORDNET PATH SIMILARITY AND WU-PALMER SIMILARITY FOR ANALYZING TEXT SIMILARITY (CASE STUDIES: THE ENGLISH TRANSLATIONS OF THE QURAN AND AN-NAWAWI'S NARRATED FORTY HADITH)

A Thesis Presented in Partial Fulfilment of the Requirements for the Degree of Bachelor in the Graduate Academic Unit of Informatics Engineering Department



DEPARTMENT OF INFORMATICS ENGINEERING FACULTY SCIENCE AND TECHNOLOGY UNIVERSITAS ISLAM NEGERI SUNAN KALIJAGA YOGYAKARTA

2020

APPROVAL PAGE



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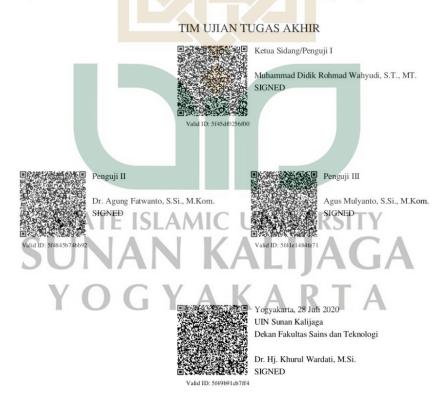
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1/1 09/09/2020

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Assalamu'alaikum wr. wb.

Setelah membaca, meneliti, memberikan petunjuk dan mengoreksi serta mengadakan perbaikan seperlunya, maka kami selaku pembimbing berpendapat bahwa skripsi Saudara:

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	Forty Hadith)"

sudah dapat diajukan kembali kepada Program Studi Teknik Informatika Fakultas Sains dan Teknologi UIN Sunan Kalijaga Yogyakarta sebagai salah satu syarat untuk memperoleh gelar Sarjana Strata Satu dalam Program Studi Teknik Informatika

Dengan ini kami mengharap agar skripsi/tugas akhir Saudara tersebut di atas dapat segera dimunaqsyahkan. Atas perhatiannya kami ucapkan terima kasih.

Wassalamu'alaikum wr. wb.

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Menyatakan bahwa skripsi saya yang berjudul "Comparative Study Of WordNet Path Similarity and Wu-Palmer Similarity For Analyzing Text Similarity (Case Studies: The English Translations Of The Quran And An-Nawawi's Narrated Forty Hadith)" merupakan hasil penelitian saya sendiri, tidak terdapat pada karya yang pernah di ajukan untuk memperoleh gelar sarjana di suatu perguruan tinggi, dan bukan plagiasi karya orang lain kecuali yang secara tertulis diacu dalam naskah ini dan disebutkan dalam daftar pustaka.

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PREFACE

In the name of God, the Most Gracious, the Most Merciful.

Alhamdulillah, and praise be to God, Lord of all worlds. And whatever He wills must come to be, that this thesis entitled "Comparative Study Of WordNet Path Similarity and Wu-Palmer Similarity For Analyzing Text Similarity (Case Studies: The English Translations Of The Quran And An-Nawawi's Narrated Forty Hadith)" is completed made as a completion of the bachelor degree in Informatics from Informatics Department, Faculty of Science, UIN Sunan Kalijaga Yogyakarta. Prayers and peace be upon our prophet, Muhammad, and on all his house and companions, may Allah bless him.

In truth, the completion of this thesis could not have been possible without the participation and assistance of so many people. Their contributions are sincerely appreciated and gratefully acknowledged. However, I, as the author would like to express my deepest appreciation and indebtedness, particularly to the followings:

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Above all, the compliment is sent to the Great Almighty, the author of knowledge, wisdom, and patience. For all of His blessings and infinite love.

STATE ISLAMIC UNIVERSITY SUNAN KALIJAYogyakarta, 14 Juli 2020 Y O G Y A K A R T A

Muhammad Raffiudin

DEDICATION

To my parents,

the reason of what I become today.

Thanks for your great support, patience, and endless care.

To my courageous brother and my adorable sister,

in their own journey of life.

STATE ISLAMIC UNIVERSITY SUNAN KALIJAGA Y O G Y A K A R T A

QUOTES



'The best among you is the one who most beneficial to others.'

Prophet Muhammad PBUH

STATE ISLAMIC UNIVERSITY SUNAN KALIJAGA Y O G Y A K A R T A

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Comparative Study Of WordNet Path Similarity and Wu-Palmer Similarity For Analyzing Text Similarity (Case Studies: The English Translations Of The Quran And An-Nawawi's Narrated Forty Hadith)"

Muhammad Raffiudin

<u>16650041</u>

ABSTRACT

Studying the Quran and the Hadith side by side can help us understand that the two are fundamental and two main resource and essential wellspring of Islamic knowledge and law, which manages muslim the genuine information and are fundamental needs of their everyday life. There are many debates about similarities between those holy scriptures from many famous preachers and scholars.

Technology, as an application of science, can be used as an alternative solution to solve these problems. There is important to stress that this research is not a religious study. There are at least two overall approaches to determine text-similarity; the vector space model and semantic similarity —define the similarity or the distance. The similarity between words is often represented by a similarity between concepts associated with the words.

The objective of this study to answer the statement that this research aims to analyzing data sets from both of the Quran and the Hadith using WordNet path similarity and Wu-Palmer similarity to find semantic similarities between each sentences from both the Quran and the Hadith and compare both of the method.

The result from implementation of both method, it can be concluded that the use of the WordNet path similarity and Wu-Palmer to the Quran Sahih International Translation with the The An-Nawawi Forty Hadith Translation and using 0.8 as threshold for similarity value for each pairs produces 0.1% similar pairs for path similarity and 0.2% for Wu-Palmer similarity from the 1.319.995 datasets run which is a combination of pairs of sentences taken from all verses from both scriptures.

This method also evaluated and have acceptable accuracy. By using 0.8 as threshold for similarity value, it shows 0.583% accuracy when using path similarity and 0.654% while using Wu-Palmer similarity, using 0.85 as threshold shows 0. 519% accuracy when using path similarity and 0.607% while using Wu-Palmer similarity, using 0.9 as threshold shows 0.436% accuracy when using path similarity and 0.513% while using Wu-Palmer similarity, using 0.95 as threshold shows 0.369% accuracy when using path similarity and 0.399% while using Wu-Palmer similarity. Despite both of the method is success to identify similarity between two sentences, but they have slighty different accuracy and Wu-Palmer similarity is superior than path similarity when identifying sentences between Quran Sahih International Translation and An-Nawawi Forty Hadith Translation.

Looking ahead, we might be able to improve our results by using multipliers such as reverse document frequency (TF-IDF), combining the results of several steps in WordNet similarity, using vector space models and optimal matching methods.

Keywords: text similarity, WordNet, Quran, Hadith, document comparison.



CHAPTER I

INTRODUCTION

The integration-interconnection concept that introduced by Prof. M. Amin Abdullah, former UIN Sunan Kalijaga Rector, is an effort in the renaissance and renewal of Islamic knowledge understandings that spread among Muslim scholars and other scholars in general. Integration-interconnection is a concept that brings an effort to combine Islamic Knowledge and General Knowledges. As a UIN Sunan Kalijaga student, it will be helpful if this research takes part in spreading that great fundamental concept.

There have been numerous research on the topic of text mining for these religious scriptures, but mainly focussing only on the Quran or the Hadith. The primary goal has been to retrieve the knowledge hidden in both of the scriptures. Furthermore, we try to represent the knowledge to researchers to stimulate more indepth research about both of the scriptures.

1.1. Motivation and Background UNIVERSITY

The Quran and Hadith, two main resource and essential wellspring of Islamic knowledge and law, which manages muslim the genuine information and are fundamental needs of their everyday life. Hadith are the alleged sayings, doings and abstentions of Prophet Muhammad, and muslim are told that hadith literature explains the Quran in details. Without hadith, they are believe that the Quran would apparently be a mass of ambiguities and cannot be applied. So some part of the Hadith can be found in the Quran and vice versa. Allah says in the Quran Al-Ahzab 33:21: "There has certainly been for you in the Messenger of Allah an excellent pattern for anyone whose hope is in Allah and the Last Day and [who] remembers Allah often." (International, 2013). Studying the Quran and the Hadith side by side can help us understand that the two are fundamental might be important and are closely related to each other. There are many debates about similarities between some part of those holy scripture from many famous preachers and scholars. Nevertheless, their opinions might contain their subjectivity from the doctrine of their background religions, ethical views, or even their environment.

Technology, as an application of science, can be used as an alternative solution to solve these problems. There is important to stress that this research is not a religious study. Instead, it is an automated computational study that gives final statistical results. Moreover, these results are no way accepted nor rejected unless they are approved by Islamic and Christian scholars.

Measures of text similarity have been used for a long time in applications in natural language processing and information retrieval, it is essential to interrelate semantic concepts. Semantic relatedness between words or concepts is a fundamental problem in many applications of computational linguistics and artificial intelligence (Wan & Angryk, 2007). Semantic similarity also has been used for a number of different purposes such as text summarization (Carenini et al., 2008), entity set search (Shen et al., 2018), even plagiarism detection (Bär et al., 2012) (Alzahrani et al., 2012). There are at least two overall approaches to determine text-similarity; the vector space model and semantic similarity —define the similarity or the distance. The similarity between words is often represented by a similarity between concepts associated with the words. The vector space model transform words to a numeric representation so that a distance function, such as cosine similarity, can be used to estimate and determine how close two texts are to each other. Semantic similarity relates to the meaning between texts, synonyms, and antonyms are one step in this direction. The key to calculating semantic similarity lies in simulating how human thinking behaviour. Semantic similarity between words is estimated by processing the first-hand information sources in the human brain. Therefore, our task is to find a model of semantic similarity to simulate human judgment by using multiple information sources. In this thesis, we propose to get a semantic approach using wordnet path similarity to measure the similarity of each verse of both of the books.

1.2. The Statement of Problem

From that introduction, we can conclude the problem that we want to solve in this research. The statement of the problem is to analyze WordNet path similarity and Wu-Palmer similarity to measure semantic similarity between the Quran Translation and the An-Nawawi's Forty Hadith and how accurate it is. In this research, we also want to show the utility of text analytics as an enabler to new knowledge acquisition. Text analytics tools and methodologies have a lot to offer to facilitate it.

1.3. Scope and Limitation

This research should have scope and limitation, so it can only focus on the problem, and the research can be controlled and directed to achieve the desired result for solving the problems. Therefore the scope and limitation are defined as follows :

- The implementation of similarity approach using WordNet path similarity and Wu-Palmer similarity to estimate the degree of similarity between each pair of two sentence from both of the scripture.
- 2. The dataset used are translations from Quran Sahih International and An-Nawawi's Forty Hadith. Quran Sahih International is an English Language translation of the Quran, the holy book of Islam Religion. Published by the Publishing House, dar Abul Qasim, Saudi Arabia, it is one of the world's most popular Quran translations. And An-Nawawi's Forty Hadith is the version of the An-Nawawi's Forty Hadith that is published by the Publishing House, dar Abul Qasim, Saudi Arabia that has been produced in collaboration with Sahih International Professional Editing and Typesetting of Islamic Literature.
- The programming language used in this research is Python Programming Language, with its variety of libraries.

1.4. The Objective of the Study

The objective of this study is to analyze of WordNet Path Similarity and Wu-Palmer Similarity for measuring document similarity of text document especially that applied on sentence pairs between the Quran Translations and the An-Nawawi's Forty Hadith.

1.5. Significances of the Study

This research aims to benefit researchers and readers to :

- Know how to determine how to inter-relating two resources of data sets and compare them meaningfully to find similarities through the WordNet path similarity and Wu-Palmer similarity approach.
- Implement technology to compare two religious scriptures to try how computational calculations can be done to open up new opportunities for the benefits of technology in the field of religion.
- To retrieve the knowledge that might be hidden in both of the scriptures. Furthermore, to represent the knowledge to researchers to trigger more indepth research about both of the religious scriptures.

1.6. The Authenticity of the Study KARTA

There a lot of research on the topic of text analytics, document/text similarity, or WordNet implementation. But the research that was using both of the Quran Translations and the An-Nawawi's Forty Hadith using WordNet path similarity and Wu-Palmer similarty using python programming language has never been done by anyone.

1.7. Writing Systematic

As a clear picture and framework on the subject of each chapter in this research, writing systematic is needed. The preparation of this thesis report has systematic writing that begins from the first chapter, Chapter I, and ended with the last chapter; Chapter V. Following are explanations for each chapter in this research report:

Chapter I

Introduction

The introductory chapter contains an explanation of the motivation and background doing this research, formulating research problems, boundaries problems, research objectives, research benefits, authenticity research, and systematic research writing.

Chapter II Review Of Related Literature & Underlying Theory

The literature review and underlying theory chapter contain **STAT** information about previous research and basic theories related to this research. The theory used consists of data mining, text preprocessing, natural language processing, text similarity, WordNet, Python.

Chapter III Research Methodology

The research methodology chapter contains explanations regarding the method or algorithm used, and the stages are undertaken to achieve goals and conclusions thesis.

Chapter IV Results And Discussion

The results and discussion chapter discusses data and results analysis from research that has been done.

Chapter V Conclusion

The conclusion chapter contains conclusions from the results of the research have been done. Furthermore, there are deficiencies in research written on suggestions for research development in the future.



CHAPTER V

CONCLUSION

5.1. Conclusion

This research has presented the implementation of WordNet Path Similarity approach to estimate the degree of similarity between The Quran Sahih International Translation and The An-Nawawi Forty Hadith Translation. The author has succeeded to run the data and measure the similarity between two datasets. From this study, it can be concluded that the use of the WordNet path similarity approach to the Quran Sahih International Translation with the The An-Nawawi Forty Hadith Translation and using 0.8 as threshold for similarity value for each pairs produces 0.1% similar pairs of the 1.319.995 datasets run which is a combination of pairs of sentences taken from all verses from both scriptures. This method also evaluated and have acceptable accuracy. By using 0.8 as threshold for similarity value, it shows 0.583% accuracy when using path similarity and 0.654% while using Wu-Palmer similarity, using 0.85 as threshold shows 0. 519% accuracy when using path similarity and 0.607% while using Wu-Palmer similarity, using 0.9 as threshold shows 0.436% accuracy when using path similarity and 0.513% while using Wu-Palmer similarity, using 0.95 as threshold shows 0.369% accuracy when using path similarity and 0.399% while using Wu-Palmer similarity. Despite both of the method is success to identify similarity between two sentences, but they have slighty different accuracy and Wu-Palmer similarity is superior than path similarity when identifying sentences between Quran Sahih International Translation and An-Nawawi Forty Hadith Translation. Author only process Quran

dataset and Hadith dataset using WordNet library without other techniques to multiply and improve accuracy of te similarity value, so, the similarity also not good enough to be used as benchmark comparing between the dataset.

5.2. Suggestion and Future Works

This research is far enough from being perfect for measuring the similarity because there is lack comparison method used for evaluating the algorithm. For future works, researchers can use another algorithm to find measuring method to estimate the degree of similarity between the Quran Sahih International and the An-Nawawi Forty Hadith. Furthermore finding a better way to evaluate the results. Looking ahead, we might be able to improve our results by using multipliers such as reverse document frequency (TF-IDF), combining the results of several steps in WordNet similarity, using vector space models and optimal matching methods. We can also another algorithm to find how good the algorithm is comparing these two that used in this research. Furthermore, machine learning task like Siamese Manhattan Long Short Term Memory (Siamese MaLSTM) Algorithm may work better if implemented for estimating the degree of similarity between each pair. Future works also better if we also include larger hadith collection like Sahih Bukhari, Sahih Muslim, etc, so we can know better the similarity between both of the source of muslim guidance. And if we talk about data, the amount of data to be measured is also extraordinary, which is more than one million sentence pairs. Collaboration between experts from the two fields of religious science like Ahli Tafsir and Ahli Hadith is also needed if research on the similarities between the two sacred scriptures is to be carried out.

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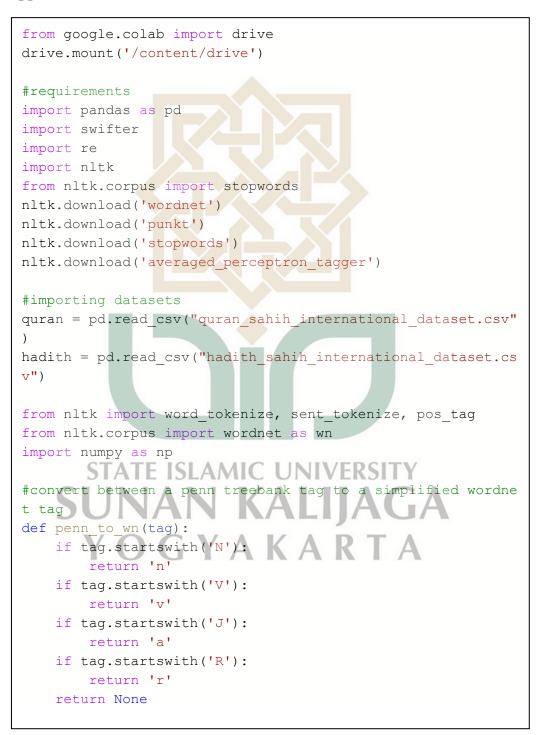
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APPENDIX

Appendix 1 Source Code



```
def tagged to synset(word, tag):
   wn tag = penn to wn(tag)
   if wn tag is None:
       return None
    try:
       return wn.synsets(word, wn tag)[0]
    except:
       return None
#compute the sentence similarity using wordnet
def sentence similarity(sentence1, sentence2):
   #tokenize and tag
   sentence1 = pos tag(word tokenize(sentence1))
    sentence2 = pos tag(word_tokenize(sentence2))
    #get the synsets for the tagged words
   synsets1 = [tagged_to_synset(*tagged_word) for tagged_w
ord in sentence1]
   synsets2 = [tagged to synset(*tagged word) for tagged w
ord in sentence21
    #filter out the nones
   synsets1 = [ss for ss in synsets1 if ss]
   synsets2 = [ss for ss in synsets2 if ss]
   score, count = 0.0, 0
    #for each word in the first sentence
    for syn1 in synsets1:
        #get the similarity value of the most similar word
in the other sentence
        x = np.array([syn1.path similarity(syn2) for syn2 i
n synsets2], dtype=np.float64)
    O try:
              best_score = np.nanmax(x)
        except ValueError: #raised if best_score is empty.
           best score = 0
     #check that the similarity could have been computed
        if best score >= 0:
            score += best score
            count += 1
```

```
#average the values
    if count == 0:
        score = score
    else:
        score /= count
    return score
#compute the symmetric sentence similarity using WordNet
def symmetric sentence similarity(sentence1, sentence2):
    return(sentence similarity(sentence1, sentence2) + sent
ence similarity(sentence2, sentence1))/2
#add leading zero for index to make all indexes three digit
s easier to process
quran["id surah"] = quran.id surah.map("{:03}".format)
quran["id ayah"] = quran.id ayah.map("{:03}".format)
hadith["id hadith"] = hadith.id hadith.map("{:02}".format)
#concatenating index so it's easier to process
quran["id q"] = quran["id surah"].astype(str) + quran["id a
yah"].astype(str)
hadith["id h"] = hadith["id hadith"].astype(str)
#dropping unnecessary column
quran = quran.drop('id surah', axis=1)
quran = quran.drop('id_ayah', axis=1)
quran = quran.drop('translations', axi
hadith = hadith.drop('id hadith
hadith = hadith.drop('translation'
                                    axi
                   11
#exploding each sentence each verses
quran = quran.explode('tokenized q')
hadith = hadith.explode('tokenized h')
```

```
#removing stopwords
stop = stopwords.words('english')
quran = quran.reset index(drop=True)
hadith = hadith.reset index(drop=True)
quran['tokenized q'] = quran.swifter.apply(lambda row: ' '.
join([word for word in row['tokenized q'].split() if word n
ot in (stop)]), axis=1)
hadith['tokenized h'] = hadith.swifter.apply(lambda row: '
'.join([word for word in row['tokenized h'].split() if word
not in (stop)]), axis=1)
#combining data
hadith repeat = hadith.iloc[np.arange(len(hadith)).repeat(l
en(quran))]
quran repeat = pd.concat([quran]*len(hadith))
hadith repeat = hadith repeat.reset index(drop=True)
quran_repeat = quran_repeat.reset index(drop=True)
combined data = pd.concat([hadith repeat, quran repeat], ax
is=1)
%%time
combined_data['value'] = combined_data.swifter.apply(lambda
row : symmetric sentence similarity(row['tokenized h'], ro
w['tokenized q']), axis = 1)
dataset['wup sim value'] = dataset.swifter.apply(lambda row
: symmetric_wup_similarity(row['tokenized h'],
row['tokenized_q']), axis = 1)
STATE ISLAMIC UNIVERSITY
file_name = '/content/drive/My Drive/research/finished.csv'
combined_data.to_csv(file_name)
#merging result GYAKARTA
import glob
import pandas as pd
files = qlob.qlob
('/content/drive/My Drive/research/clean_*.csv')
dfs = [pd.read csv(f, sep=",") for f in files]
big data = pd.concat(dfs,ignore_index=True)
big_data = big_data.drop(big_data.columns[0], axis=1)
```

```
import swifter
def how similar(value):
  if value <= 0.8:
   return 'similar'
  else:
   return 'not similar'
big data['similarity'] = big data.swifter.apply\
(lambda row : how similar(row['value']), axis = 1)
import matplotlib.pyplot as plt
# Data to plot
labels = 'similar sentence', 'not similar'
sizes = [len(sim sent), len(notsim_sent) ]
colors = ['lightcoral', 'lightskyblue']
explode = (0, 0.1) # explode 1st slice
# Plot
plt.pie(sizes, explode=explode, labels=labels, colors=color
s,
autopct='%1.1f%%', shadow=True, startangle=140)
plt.axis('equal')
plt.show()
data = pd.read_csv(r'msr_paraphrase_data.txt', sep = '\t',
quoting=csv.QUOTE NONE) MIC UNIVERSIT
test = pd.read_csv(r'msr_paraphrase_test.txt',
                                              sep = ' t',
quoting=csv.QUOTE NONE)
                                   _ | | /
train = pd.read_csv(r'msr_paraphrase_train.txt', sep = '\t
', quoting=csv.QUOTE NONE) - - -
import swifter
import nltk
import re
#tokenize sentence, cleansing special characters
msr data['sentence 1'] = msr data.swifter.apply(lambda row:
re.sub('[^A-Za-z0-
9.]+', ' ', row['#1 String'].lower()), axis=1)
msr data['sentence 2'] = msr data.swifter.apply(lambda row:
re.sub('[^A-Za-z0-
9.]+', ' ', row['#2 String'].lower()), axis=1)
```

```
#removing stopwords
from nltk.corpus import stopwords
stop = stopwords.words('english')
msr data['sentence 1'] = msr data.swifter.apply(lambda row:
 ' '.join([word for word in row['sentence 1'].split() if wo
rd not in (stop)]), axis=1)
msr data['sentence 2'] = msr data.swifter.apply(lambda row:
' '.join([word for word in row['sentence 2'].split() if wo
rd not in (stop)]), axis=1)
#dropping unnecessary column
msr data = msr data.drop('#1 ID', axis=1)
msr data = msr data.drop('#2 ID', axis=1)
msr data = msr data.drop('#1 String', axis=1)
msr data = msr data.drop('#2 String', axis=1)
msr data['value'] = msr data.swifter.apply(lambda row : sym
metric sentence similarity(row['sentence 1'], row['sentence
2']), axis = 1)
def how similar(value):
 if value <= 0.95 :
   return 1
  else:
   return 0
msr data['similarity'] = msr data.swifter.apply(lambda row
: how similar(row['value']), axis = 1)
       STATE ISLAMIC UNIVERSITY
    SUNAN KALIJAGA
       YOGYAKARTA
```

```
# Python script for confusion matrix creation.
from sklearn.metrics import confusion matrix
from sklearn.metrics import accuracy score
from sklearn.metrics import classification report
import matplotlib.pyplot as plt
import os
import seaborn as sns
actual = msr data['Quality']
predicted = msr data['similarity']
results = confusion matrix(actual, predicted)
f, ax = plt.subplots(figsize=(6,3))
sns.heatmap(confusion matrix(actual, predicted), annot=True
, fmt=".0f", ax=ax)
plt.xlabel("Using WordNet Path Similarity")
plt.ylabel("MSR Data")
plt.show()
print('Treshold : 0.97')
print('Accuracy Score :', accuracy score(actual, predicted))
print(classification report(actual, predicted))
       STATE ISLAMIC UNIVERSITY
    SUNAN KALIJAGA
      YOGYAKARTA
```

id_surah	id	aval	h	translations
1		•	1	In the name of Allah, the Entirely Merciful, the
				Especially Merciful.
1			2	[All] praise is [due] to Allah, Lord of the worlds -
1			3	The Entirely Merciful, the Especially Merciful,
1		4	4	Sovereign of the Day of Recompense.
1			5	It is You we worship and You we ask for help.
1		(6	Guide us to the straight path -
1		,	7	The path of those upon whom You have bestowed favor,
				not of those who have evoked [Your] anger or of those
				who are astray.
2			1	Alif, Lam, Meem.
2		1	2	This is the Book about which there is no doubt, a
				guidance for those conscious of Allah -
2		í	3	Who believe in the unseen, establish prayer, and spend
				out of what We have provided for them,
2		4	4	And who believe in what has been revealed to you, [O
				Muhammad], and what was revealed before you, and of
				the Hereafter they are certain [in faith].
2	- 11		5	Those are upon [right] guidance from their Lord, and it is
				those who are the successful.
2		(б	Indeed, those who disbelieve - it is all the same for them
				whether you warn them or do not warn them - they will
				not believe.
2		(7	Allah has set a seal upon their hearts and upon their
				hearing, and over their vision is a veil. And for them is a
			-	great punishment.
2	ST	AT	8	And of the people are some who say, "We believe in
-				Allah and the Last Day," but they are not believers.
2	U		9	They [think to] deceive Allah and those who believe, but
		-1.4	-	they deceive not except themselves and perceive [it] not.
2	Y	(h	U	In their hearts is disease, so Allah has increased their
				disease; and for them is a painful punishment because
2		1	1	they [habitually] used to lie.
2		1	1	And when it is said to them, "Do not cause corruption on the conth." they say, "We are but reformers."
2		1/	n	the earth," they say, "We are but reformers."
2		12	2	Unquestionably, it is they who are the corrupters, but
2		1.	3	they perceive [it] not. And when it is said to them, "Believe as the people have
		1.	5	believed," they say, "Should we believe as the foolish
				have believed?" Unquestionably, it is they who are the
				foolish, but they know [it] not.
L				

Appendix 2 100 First Row Quran Sahih International Translasion Dataset

-		
2	14	And when they meet those who believe, they say, "We
		believe"; but when they are alone with their evil ones,
		they say, "Indeed, we are with you; we were only
		mockers."
2	15	[But] Allah mocks them and prolongs them in their
		transgression [while] they wander blindly.
2	16	Those are the ones who have purchased error [in
		exchange] for guidance, so their transaction has brought
		no profit, nor were they guided.
2	17	Their example is that of one who kindled a fire, but when
		it illuminated what was around him, Allah took away
		their light and left them in darkness [so] they could not
		see.
2	18	Deaf, dumb and blind - so they will not return [to the
	10	right path].
2	19	Or [it is] like a rainstorm from the sky within which is
	17	darkness, thunder and lightning. They put their fingers in
		their ears against the thunderclaps in dread of death. But
		Allah is encompassing of the disbelievers.
2	20	The lightning almost snatches away their sight. Every
2	20	
		time it lights [the way] for them, they walk therein; but
		when darkness comes over them, they stand [still]. And if
		Allah had willed, He could have taken away their hearing
		and their sight. Indeed, Allah is over all things
2		competent.
2	21	O mankind, worship your Lord, who created you and
	22	those before you, that you may become righteous -
2	22	[He] who made for you the earth a bed [spread out] and
		the sky a ceiling and sent down from the sky, rain and
	STATE	brought forth thereby fruits as provision for you. So do
0		not attribute to Allah equals while you know [that there is
		nothing similar to Him].
		And if you are in doubt about what We have sent down
	VO	upon Our Servant [Muhammad], then produce a surah the
		like thereof and call upon your witnesses other than
		Allah, if you should be truthful.
2	24	But if you do not - and you will never be able to - then
		fear the Fire, whose fuel is men and stones, prepared for
		the disbelievers.
2	25	And give good tidings to those who believe and do
		righteous deeds that they will have gardens [in Paradise]
		beneath which rivers flow. Whenever they are provided
		with a provision of fruit therefrom, they will say, "This is
		what we were provided with before." And it is given to
		them in likeness. And they will have therein purified
		spouses, and they will abide therein eternally.

r		
2	26	Indeed, Allah is not timid to present an example - that of
		a mosquito or what is smaller than it. And those who
		have believed know that it is the truth from their Lord.
		But as for those who disbelieve, they say, "What did
		Allah intend by this as an example?" He misleads many
		thereby and guides many thereby. And He misleads not
		except the defiantly disobedient,
2	27	Who break the covenant of Allah after contracting it and
2	21	sever that which Allah has ordered to be joined and cause
		corruption on earth. It is those who are the losers.
2	28	
2	28	How can you disbelieve in Allah when you were lifeless
		and He brought you to life; then He will cause you to die,
		then He will bring you [back] to life, and then to Him
		you will be returned.
2	29	It is He who created for you all of that which is on the
		earth. Then He directed Himself to the heaven, [His
		being above all creation], and made them seven heavens,
		and He is Knowing of all things.
2	30	And [mention, O Muhammad], when your Lord said to
		the angels, "Indeed, I will make upon the earth a
		successive authority." They said, "Will You place upon it
		one who causes corruption therein and sheds blood, while
		we declare Your praise and sanctify You?" Allah said,
		"Indeed, I know that which you do not know."
2	31	And He taught Adam the names - all of them. Then He
2	51	showed them to the angels and said, "Inform Me of the
		names of these, if you are truthful."
2	32	They said, "Exalted are You; we have no knowledge
2	54	except what You have taught us. Indeed, it is You who is
		the Knowing, the Wise."
2	STA ₃₃	He said, "O Adam, inform them of their names." And
2		
		when he had informed them of their names, He said, "Did
9		I not tell you that I know the unseen [aspects] of the
	VO	heavens and the earth? And I know what you reveal and
	IU	what you have concealed."
2	34	And [mention] when We said to the angels, "Prostrate
		before Adam"; so they prostrated, except for Iblees. He
		refused and was arrogant and became of the disbelievers.
2	35	And We said, "O Adam, dwell, you and your wife, in
		Paradise and eat therefrom in [ease and] abundance from
		wherever you will. But do not approach this tree, lest you
		be among the wrongdoers."
2	36	But Satan caused them to slip out of it and removed them
		from that [condition] in which they had been. And We
		said, "Go down, [all of you], as enemies to one another,

		1 111 .1 .1 .1
		and you will have upon the earth a place of settlement
		and provision for a time."
2	37	Then Adam received from his Lord [some] words, and
		He accepted his repentance. Indeed, it is He who is the
		Accepting of repentance, the Merciful.
2	38	We said, "Go down from it, all of you. And when
		guidance comes to you from Me, whoever follows My
		guidance - there will be no fear concerning them, nor will
		they grieve.
2	39	And those who disbelieve and deny Our signs - those will
		be companions of the Fire; they will abide therein
		eternally."
2	40	O Children of Israel, remember My favor which I have
		bestowed upon you and fulfill My covenant [upon you]
		that I will fulfill your covenant [from Me], and be afraid
		of [only] Me.
2	41	And believe in what I have sent down confirming that
		which is [already] with you, and be not the first to
		disbelieve in it. And do not exchange My signs for a
		small price, and fear [only] Me.
2	42	And do not mix the truth with falsehood or conceal the
	_	truth while you know [it].
2	43	And establish prayer and give zakah and bow with those
		who bow [in worship and obedience].
2	44	Do you order righteousness of the people and forget
		yourselves while you recite the Scripture? Then will you
		not reason?
2	45	And seek help through patience and prayer, and indeed, it
		is difficult except for the humbly submissive [to Allah]
2	ст 46	Who are certain that they will meet their Lord and that
	JIAI	they will return to Him.
2	47	O Children of Israel, remember My favor that I have
3		bestowed upon you and that I preferred you over the
	VO	worlds.
2	48	And fear a Day when no soul will suffice for another soul
		at all, nor will intercession be accepted from it, nor will
		compensation be taken from it, nor will they be aided.
2	49	And [recall] when We saved your forefathers from the
		people of Pharaoh, who afflicted you with the worst
		torment, slaughtering your [newborn] sons and keeping
		your females alive. And in that was a great trial from
		your Lord.
2	50	And [recall] when We parted the sea for you and saved
		you and drowned the people of Pharaoh while you were
		looking on.

2	51	And [recall] when We made an appointment with Moses
		for forty nights. Then you took [for worship] the calf
		after him, while you were wrongdoers.
2	52	Then We forgave you after that so perhaps you would be
		grateful.
2	53	And [recall] when We gave Moses the Scripture and
		criterion that perhaps you would be guided.
2	54	And [recall] when Moses said to his people, "O my
		people, indeed you have wronged yourselves by your
		taking of the calf [for worship]. So repent to your Creator
		and kill yourselves. That is best for [all of] you in the
		sight of your Creator." Then He accepted your
		repentance; indeed, He is the Accepting of repentance,
		the Merciful.
2	55	And [recall] when you said, "O Moses, we will never
2	55	believe you until we see Allah outright"; so the
		thunderbolt took you while you were looking on.
2	56	Then We revived you after your death that perhaps you
2	50	would be grateful.
2	57	And We shaded you with clouds and sent down to you
2	57	manna and quails, [saying], "Eat from the good things
		with which We have provided you." And they wronged
		Us not - but they were [only] wronging themselves.
2	58	And [recall] when We said, "Enter this city and eat from
2	50	it wherever you will in [ease and] abundance, and enter
		the gate bowing humbly and say, 'Relieve us of our
		burdens.' We will [then] forgive your sins for you, and
		We will increase the doers of good [in goodness and
		reward]."
2	59_	But those who wronged changed [those words] to a
	STATE	statement other than that which had been said to them, so
C		We sent down upon those who wronged a punishment
	UN	from the sky because they were defiantly disobeying.
2	60	And [recall] when Moses prayed for water for his people,
		so We said, "Strike with your staff the stone." And there
		gushed forth from it twelve springs, and every people
		knew its watering place. "Eat and drink from the
		provision of Allah, and do not commit abuse on the earth,
		spreading corruption."
2	61	And [recall] when you said, "O Moses, we can never
	01	endure one [kind of] food. So call upon your Lord to
		bring forth for us from the earth its green herbs and its
		cucumbers and its garlic and its lentils and its onions."
		[Moses] said, "Would you exchange what is better for
		what is less? Go into [any] settlement and indeed, you
		•
		will have what you have asked." And they were covered

		with humiliation and poverty and returned with anger
		from Allah [upon them]. That was because they
		[repeatedly] disbelieved in the signs of Allah and killed
		the prophets without right. That was because they
		disobeyed and were [habitually] transgressing.
2	62	Indeed, those who believed and those who were Jews or
		Christians or Sabeans [before Prophet Muhammad] -
		those [among them] who believed in Allah and the Last
		Day and did righteousness - will have their reward with
		their Lord, and no fear will there be concerning them, nor
		will they grieve.
2	63	And [recall] when We took your covenant, [O Children
		of Israel, to abide by the Torah] and We raised over you
		the mount, [saying], "Take what We have given you with
		determination and remember what is in it that perhaps
		you may become righteous."
2	64	Then you turned away after that. And if not for the favor
		of Allah upon you and His mercy, you would have been
		among the losers.
2	65	And you had already known about those who
		transgressed among you concerning the sabbath, and We
		said to them, "Be apes, despised."
2	66	And We made it a deterrent punishment for those who
		were present and those who succeeded [them] and a
2	(7	lesson for those who fear Allah .
2	67	And [recall] when Moses said to his people, "Indeed,
		Allah commands you to slaughter a cow." They said, "Do
		you take us in ridicule?" He said, "I seek refuge in Allah
2	60	from being among the ignorant." They said, "Call upon your Lord to make clear to us what
Z	STA ⁶⁸	it is." [Moses] said, "[Allah] says, 'It is a cow which is
C		neither old nor virgin, but median between that,' so do
	UN	what you are commanded."
2	69	They said, "Call upon your Lord to show us what is her
	YŐ	color." He said, "He says, 'It is a yellow cow, bright in
		color - pleasing to the observers.'"
2	70	They said, "Call upon your Lord to make clear to us what
		it is. Indeed, [all] cows look alike to us. And indeed we,
		if Allah wills, will be guided."
2	71	He said, "He says, 'It is a cow neither trained to plow the
		earth nor to irrigate the field, one free from fault with no
		spot upon her.'" They said, "Now you have come with
		the truth." So they slaughtered her, but they could hardly
		do it.

2	72	And [recall] when you slew a man and disputed over it,
		but Allah was to bring out that which you were
		concealing.
2	73	So, We said, "Strike the slain man with part of it." Thus
		does Allah bring the dead to life, and He shows you His
		signs that you might reason.
2	74	Then your hearts became hardened after that, being like
		stones or even harder. For indeed, there are stones from
		which rivers burst forth, and there are some of them that
		split open and water comes out, and there are some of
		them that fall down for fear of Allah . And Allah is not
		unaware of what you do.
2	75	Do you covet [the hope, O believers], that they would
		believe for you while a party of them used to hear the
		words of Allah and then distort the Torah after they had
		understood it while they were knowing?
2	76	And when they meet those who believe, they say, "We
		have believed"; but when they are alone with one
		another, they say, "Do you talk to them about what Allah
		has revealed to you so they can argue with you about it
		before your Lord?" Then will you not reason?
2	77	But do they not know that Allah knows what they
		conceal and what they declare?
2	78	And among them are unlettered ones who do not know
		the Scripture except in wishful thinking, but they are only
		assuming.
2	79	So woe to those who write the "scripture" with their own
		hands, then say, "This is from Allah," in order to
		exchange it for a small price. Woe to them for what their
	CTATE	hands have written and woe to them for what they earn.
2	SIA 801	And they say, "Never will the Fire touch us, except for a
C		few days." Say, "Have you taken a covenant with Allah?
3		For Allah will never break His covenant. Or do you say
	VA	about Allah that which you do not know?"
2	¥ 81	Yes, whoever earns evil and his sin has encompassed him
		- those are the companions of the Fire; they will abide
		therein eternally.
2	82	But they who believe and do righteous deeds - those are
		the companions of Paradise; they will abide therein
		eternally.
2	83	And [recall] when We took the covenant from the
		Children of Israel, [enjoining upon them], "Do not
		worship except Allah; and to parents do good and to
		relatives, orphans, and the needy. And speak to people
		good [words] and establish prayer and give zakah." Then

		you turned away, except a few of you, and you were
-		refusing.
2	84	And [recall] when We took your covenant, [saying], "Do
		not shed each other's blood or evict one another from
		your homes." Then you acknowledged [this] while you
		were witnessing.
2	85	Then, you are those [same ones who are] killing one
		another and evicting a party of your people from their
		homes, cooperating against them in sin and aggression.
		And if they come to you as captives, you ransom them,
		although their eviction was forbidden to you. So do you
		believe in part of the Scripture and disbelieve in part?
		Then what is the recompense for those who do that
		among you except disgrace in worldly life; and on the
		Day of Resurrection they will be sent back to the severest
		of punishment. And Allah is not unaware of what you do.
2	86	Those are the ones who have bought the life of this world
		[in exchange] for the Hereafter, so the punishment will
		not be lightened for them, nor will they be aided.
2	87	And We did certainly give Moses the Torah and followed
		up after him with messengers. And We gave Jesus, the
		son of Mary, clear proofs and supported him with the
		Pure Spirit. But is it [not] that every time a messenger
		came to you, [O Children of Israel], with what your souls
		did not desire, you were arrogant? And a party [of
		messengers] you denied and another party you killed.
2	88	And they said, "Our hearts are wrapped." But, [in fact],
		Allah has cursed them for their disbelief, so little is it that
		they believe.
2	89	And when there came to them a Book from Allah
	SIAI	confirming that which was with them - although before
C	IINI	they used to pray for victory against those who
3	UIN	disbelieved - but [then] when there came to them that
		which they recognized, they disbelieved in it; so the
	Y ()	curse of Allah will be upon the disbelievers.
2	90	How wretched is that for which they sold themselves -
		that they would disbelieve in what Allah has revealed
		through [their] outrage that Allah would send down His
		favor upon whom He wills from among His servants. So
		they returned having [earned] wrath upon wrath. And for
		the disbelievers is a humiliating punishment.
2	91	And when it is said to them, "Believe in what Allah has
		revealed," they say, "We believe [only] in what was
		revealed to us." And they disbelieve in what came after
2 2 2 S 2	87 88 88 STATE UN Y O 90	Those are the ones who have bought the life of this worl [in exchange] for the Hereafter, so the punishment will not be lightened for them, nor will they be aided. And We did certainly give Moses the Torah and followe up after him with messengers. And We gave Jesus, the son of Mary, clear proofs and supported him with the Pure Spirit. But is it [not] that every time a messenger came to you, [O Children of Israel], with what your soul did not desire, you were arrogant? And a party [of messengers] you denied and another party you killed. And they said, "Our hearts are wrapped." But, [in fact], Allah has cursed them for their disbelief, so little is it that they believe. And when there came to them a Book from Allah confirming that which was with them - although before they used to pray for victory against those who disbelieved - but [then] when there came to them that which they recognized, they disbelieved in it; so the curse of Allah will be upon the disbelievers. How wretched is that for which they sold themselves - that they would disbelieve in what Allah has revealed through [their] outrage that Allah would send down His favor upon whom He wills from among His servants. So they returned having [earned] wrath upon wrath. And fo the disbelievers is a humiliating punishment. And when it is said to them, "Believe in what Allah has revealed," they say, "We believe [only] in what was

		them. Say, "Then why did you kill the prophets of Allah before, if you are [indeed] believers?"
2	92	And Moses had certainly brought you clear proofs. Then you took the calf [in worship] after that, while you were wrongdoers.
2	93	And [recall] when We took your covenant and raised over you the mount, [saying], "Take what We have given you with determination and listen." They said [instead], "We hear and disobey." And their hearts absorbed [the worship of] the calf because of their disbelief. Say, "How wretched is that which your faith enjoins upon you, if you should be believers."

Appendix 3 An-Nawawi Forty Hadith

id_hadith	translation
1	On the authority of the Commander of the Faithful, Abū Ḥafs, `Umar bin al-Khaṭṭāb, who said: I heard the Messenger of Allah () say: "Deeds are only by intentions, and every man shall have only what he intended. So one whose hijrah [emigration] was to Allah and His Messenger – his hijrah was to Allah and His Messenger. But one whose hijrah was to achieve a worldly aim or to a woman he would marry – then his hijrah was to that for which he emigrated."
2 Sl	Also on the authority of `Umar, who said: [One day] while we were sitting with the Messenger of Allah (), a man came over to us whose clothes were exceedingly white and whose hair was exceedingly black; no signs of travel were seen on him, but none of us knew him. He came and sat down opposite the Prophet () and rested his knees against his, placing the palms of his hands on his thighs. He said, "O Muḥammad , inform me about Isłam." The Messenger of Allah () said, "Islam is to testify that there is no god but Allah and that Muḥammad is the Messenger of Allah, to establish prayer, to give zakāh, to fast Ramadhān, and to make the pilgrimage to the House6 if you are able to do so." He said, "You have spoken the truth," and we wondered at his asking him and confirming it. He said, "Then inform me about īmān." 7 He said, "It is to believe in Allah, His angels, His books, His messengers, and the Last Day, and to believe in predestination, both the good and the evil thereof." He said, "You have spoken the truth." He said, "Then inform me about iḥsān." 8 He said, "It is to worship Allah as though you see Him; if you do not see Him, indeed, He sees you." He said, "Then inform me about the Hour." 9 He said, "The one questioned about it knows no more than the questioner." He said,

 "Then inform me of its signs." He said, "That the slave-woman will give birth to her mistress and that you will see barefooted, naked, destitute shepherds competing in the loftiness of constructions." Then he departed, and I stayed for a time. Then he said, "O `Umar, do you know who the questioner was?" I said, "Allah and His Messenger are more knowing." He said, "It was Gabriel. He came to you to teach you your religion." On the authority of Abū 'Abdur-Raḥmān, 'Abdullāh, son of 'Umar bin al-Khattāb, who said: I heard the Messenger of Allah () say: "Islam has been built on five: testifying that there is no deity but Allah and that Muḥammad is the Messenger of Allah, the establishment of prayer, giving zakāh, making the pilgrimage to the House, and fasting Ramadhān." On the authority of Abū 'Abdur-Raḥmān, 'Abdullāh bin Mas'ūd, who said: The Messenger of Allah (), and he is the truthful, the believed,23 narrated to us." Indeed, the creation of one of you is brought together in his mother's belly for forty days in the form of a zygote, then he is a clinging cloff or a like period, then a morsel of flesh for a like period, then at morsel of flesh for a like period, then at morsel and [whether he will be] unhappy or happy. And by Allah, other than whom there is no deity, indeed, one of you does the deeds of the people of Paradise until there is not between him and it except an arm's length, but the decree overtakes him so he does the deeds of the people of the Fire until there is not between him and it except an arm's length, but the decree overtakes him so he does the does the deeds of the people of the Fire until there is not between him and it except an arm's length, but the decree overtakes him so he does the deeds of the people of the Fire until there is not between him and it except an arm's length, but the decree overtakes him so he does the deeds of the people of the Fire until there is not apart of it – it will be rejected." On the authority of Abū 'Abdulāh, an-Nu'mān bin		
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7	On the authority of Abū Ruqayyah, Tameem bin Aus ad-Dāri, that the Prophet () said: "Religion is sincerity." We said, "To whom?" He said, "To Allah and to His Book, to His Messenger, and to the loaders of Muslims and their common people."
8	leaders of Muslims and their common people." On the authority of 'Abdullāh, the son of 'Umar bin al-Khaṭṭāb that the Messenger of Allah () said: "I have been ordered to fight people until they testify that there is no god but Allah and that Muḥammad is the Messenger of Allah and perform the prayers and give the zakāh. If they do that, they are protected from me regarding their blood and their properties unless by the right of Islam, and their account will be with Allah, the Exalted."
9	On the authority of Abū Hurayrah, 'Abdur-Raḥmān bin Ṣakhr, who said: I heard the Messenger of Allah () say: "What I have forbidden to you, avoid; what I have ordered you [to do], do of it what you are able. For it was only their excessive questioning and their contradiction of their prophets that destroyed those before you."
10	On the authority of Abū Hurayrah, who reported that the Messenger of Allah () said: "Indeed, Allah, the Exalted, is pure and accepts only that which is pure. Allah has commanded the believers to do what he commanded the messengers, and He, the Exalted, said: 'O messengers, eat of the good things and work righteousness.' 58 And He, the Exalted, said: 'O you who have believed, eat from the good things with which We have provided you.' 59 Then he mentioned a man who has prolonged a journey, is disheveled and dusty and extends his hands to the heaven, [supplicating], 'Our Lord, Our Lord,' while his food is unlawful, his drink is unlawful, his clothing is unlawful, and he has been nourished by what is unlawful; so how could he be answered?"
11 S	On the authority of Abū Muḥammad, al-Ḥasan, son of 'Ali bin Abī Ţālib and grandson of the Messenger of Allah () and his fragrant [i.e., beloved] one, who said: I memorized from the Messenger of Allah (): "Leave that which makes you doubt for that which does not make you doubt."
12	On the authority of Abū Hurayrah, who said: The Messenger of Allah () said: "From the excellence of a person's Islam is his leaving alone what does not concern him."
13	On the authority of Abū Ḥamzah, Anas bin Mālik, the servant of the Messenger of Allah (), that the Prophet () said: "None of you [truly] believes until he likes for his brother what he likes for himself."
14	On the authority of Ibn Masʿūd, who said: The Messenger of Allah () said: "The blood of a Muslim person is not permitted [to be shed] except in one of three [cases]: the married adulterer, a life for a life,66 and the renouncer of his religion, the deserter of the community."

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15	On the authority of Abū Hurayrah that the Messenger of Allah ()
	said: "One who believes in Allah and the Last Day should either
	speak good or keep silent, and one who believes in Allah and the
	Last Day should be generous to his neighbor, and one who believes
	in Allah and the Last Day should be generous to his guest."
16	On the authority of Abū Hurayrah, who said: A man said to the
	Prophet (): "Counsel me." He () said, "Do not get angry." The man
	repeated [his request] several times. He () said, "Do not get angry."
17	On the authority of Abū Yaʿla, Shaddād bin Aus, that the
-	Messenger of Allah () said: "Indeed, Allah has decreed ihsan for all
	things. So when you kill, kill well; and when you slaughter,
	slaughter well. Let each one of you sharpen his blade, and let him
	spare suffering to the animal he slaughters."
18	On the authority of Abū Dharr, Jundub bin Junādah, and Abū
10	`Abdur-Raḥmān, Muʿādh bin Jabal, that the Messenger of Allah ()
	said: "Fear Allah wherever you are and follow up a bad deed with a
	good one; it will wipe it out, and deal with people by good moral
10	character."
19	On the authority of Abū 'Abbās, 'Abdullāh bin 'Abbās, who said:
	One day I was [mounted] behind the Prophet (), and he said to me,
	"Young man, I will teach you words [of advice]: Keep Allah in
	mind – He will keep you from harm. Keep Allah in mind – you
	will find Him before you. When you ask, ask Allah; and when you
	seek help, seek it from Allah. Know that even if the [whole] nation
	assembled in order to benefit you with something, it could not
	benefit you except by something Allah had already decreed for
	you; and if they assembled in order to harm you with something,
	they could not harm you except with something Allah had already
	decreed upon you. The pens have been lifted, and the pages have
	dried."
20	On the authority of Abū Masʿūd, ʿUqbah bin ʿAmr al-Anṣāri al-
6	Badri, who said: The Messenger of Allah () said: "Among that
	which people knew from the words of former prophecy is: When
	you feel no shame, then do whatever you wish."
21	On the authority of Abū 'Amr – and he is also mentioned as Abū
	'Amrah – Sufyān bin 'Abdullāh, who said: I said, "O Messenger of
	Allah, tell me something about Islam which I will not [need to] ask
	anyone but you." He said, "Say, 'I believe in Allah,' and then
	remain upright."
22	On the authority of Abū `Abdullāh, Jābir bin `Abdullāh al-Anṣāri:
	A man asked the Messenger of Allah (), "Do you consider: if I
	prayed the obligatory prayers, fasted Ramadhān, allowed what is
	lawful and prohibited what is unlawful and added nothing to that, I
	would enter Paradise?" He said, "Yes."
23	On the authority of Abū Mālik, al-Ḥārith bin ʿAasim al-Ash'ari,
	who said: The Messenger of Allah () said: "Purity is half the faith.
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	And 'al-hamdu lillāh' 119 fills the scale; and 'subhān Allāh' 120 and
	'al-hamdu lilāah' fill what is between the heaven and earth. Prayer
	is light, sadaqah is evidence, patience is burning light, and the
	Qur'ān is an argument for you or against you. Each of the people
	begins at morning, selling his soul – either freeing it [thereby] or
-	destroying it."
24	On the authority of Abū Dharr al-Ghifāri from the Prophet ()
	among that which he related from his Lord, the Mighty and
	Majestic, is that He said:121 "O My servants, indeed I have
	prohibited injustice for Myself and made it among you prohibited,
	so be not unjust to one another. O My servants, all of you are lost
	except whom I have guided, so seek guidance from Me and I will
	guide you. O My servants, all of you are hungry except whom I
	have fed, so ask Me for food and I will feed you. O My servants,
	all of you are naked except whom I have clothed, so ask Me for
	clothing and I will clothe you. O My servants, indeed you err by
	night and by day and I forgive all sins, so seek forgiveness of Me
	and I will forgive you. O My servants, never will you reach [so far
	as] to harm Me so you could harm Me, and never will you reach
	[so far as] to benefit Me so you could benefit Me. O My servants, if
	the first of you, the last of you, the humans of you, and the jinn of
	you were [all] as righteous as the most righteous heart of one man
	among you, it would not increase My dominion at all. O My
	servants, if the first of you, the last of you, the humans of you, and
	the jinn of you were as wicked as the most wicked heart of one
	man among you, it would not decrease My dominion at all. O My
	servants, if the first of you, the last of you, the humans of you, and
	the jinn of you were to stand in one place and ask something of Me
	and I gave each one his request, that would not decrease what I
	have except like the needle decreases [the water] when put into the
	sea. O My servants, it is only your deeds I enumerate for you and
	then I fully compensate you for them. So whoever finds good – let
	him praise Allah, and whoever finds otherwise should certainly not
	blame except himself."
25	Also on the authority of Abū Dharr: Some of the companions of the
	Messenger of Allah said to the Prophet (): "O Messenger of Allah,
	the affluent have taken the rewards: they pray as we pray, they fast
	as we fast, and they give in charity the excess of their wealth." He
	said, "Has not Allah made something for you to do in charity?
	Indeed, in each saying of 'subhān Allāh' is a charity, and each
	'Allāhu akbar' is a charity, and each 'al-ḥamdulillāh' is a charity,
	and each 'lā ilāha ill-Allāh' is a charity, and enjoining what is right
	is a charity, and prohibiting what is wrong is a charity, and in the
	sexual intercourse of one of you is a charity." They said, "O
	Messenger of Allah, does one of us indulge in his desire and get for
	it a reward?" He said, "Have you considered: if he were to do it
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unlawfully, would he have for it a burden [of sin]? Similarly, when
he does it lawfully, he will have for it a reward."
On the authority of Abū Hurayrah, who said: The Messenger of Allah () said: "Upon the people's every joint a charity is due each day the sun rises. Your being just between two persons is a charity; your helping a man with his mount, lifting him onto it or hoisting up his belongings onto it for him is a charity; and a good word is a charity. And with each step you take walking to the
[congregational] prayer is a charity; and your removing something harmful from the road is a charity."
On the authority of an-Nawwās bin Samʿān that the Prophet () said: "Righteousness is good morals, and wrongdoing is that which wavers within yourself and you would dislike people to discover."
On the authority of Abū Najeeḥ al-'Irbādh bin Sāriyah, who said: The Messenger of Allah () admonished us with a warning from which [our] hearts became fearful and [our] eyes shed tears. So we said, "O Messenger of Allah (), it is as if it was a final warning, so instruct us." He said, "I direct you to fear Allah, the Mighty and Majestic, and to hear and obey, even if a slave is made a leader over you. For indeed, he who lives long among you will see much controversy. So you must adhere to my sunnah and the sunnah of the rightly guided caliphs; clench it with your molar teeth. And beware of newly devised matters, for every newly devised thing is an innovation, and every innovation is misguidance, and every misguidance is in the Fire."
On the authority of Mu'ādh bin Jabal, who said: I said, "O Messenger of Allah (), inform me of a deed which will take me into Paradise and keep me away from the Fire." He said, "You have asked me about a tremendous matter, but indeed, it is easy for one for whom Allah, the Exalted, makes it easy. You should worship Allah, associating nothing with Him, establish prayer, fast [the month of] Ramadhān, and make the pilgrimage to the House."149 Then he said, "Shall I not point out to you the gates of goodness? Fasting is a shield. Charity extinguishes sin as water extinguishes fire and [so does] the prayer of a man in the middle of the night." Then he recited: "They forsake their beds, invoking their Lord in fear and hope, and spend of that We have provided them. And no soul knows what has been hidden for them of satisfaction as reward for what they used to do." 150 Then he said, "Shall I not inform you of the head of the matter, its pillar and the peak of its elevation?" I said, "Yes, O Messenger of Allah." He said, "The head of the matter is islām [i.e., submission], its pillar is prayer, and the peak of its elevation is jihād." Then he said, "Shall I not inform you of the foundation of all that?" I said, "Yes, O Messenger of Allah." So he took hold of his tongue and said,

	what we talk about?" He said, "May your mother be bereaved of you, O Mu'ādh! Does anything topple people into the Fire on their faces" or he said, "on their noses except the harvests of their tongues?"
30	On the authority of Abū Thaʿlabah al-Khushani, Jurthūm bin
50	Nāshir, that the Messenger of Allah () said: "Indeed, Allah, the
	e e e e
	Exalted, has imposed [religious] obligations, so do not neglect
	them. And He has set limits, so do not overstep them. And He has
	prohibited things, so do not violate them. And He has kept silent
	about [certain] things out of mercy to you, not forgetfulness, so do
0.1	not search them out."
31	On the authority of Abul- Abbās, Sahl bin Saʿd as-Sāʿidi, who
	said: A man came to the Prophet () and said, "O Messenger of
	Allah, direct me to a deed which, when I have done it, Allah will
	love me and people will love me." So he said, "Be indifferent
	toward [pleasures of] the world and Allah will love you, and be
	indifferent toward what people have and people will love you."
32	On the authority of Abū Sa'eed, Sa'd bin Mālik bin Sinān al-
	Khudri, that the Messenger of Allah () said: "Let there be no harm
	[to anyone] and no harming [in reciprocation]."
33	On the authority of Ibn 'Abbās that the Messenger of Allah () said:
	"If people were given according to their claim, men would have
	laid claim to the properties of [another] people as well as their
	blood; but the [burden of] proof is on the claimant, and the oath is
	[incumbent] on him who denies."
34	On the authority of Abū Sa'eed al-Khudri, who said: I heard the
	Messenger of Allah () say: "Whoever of you sees a wrong – let him
	change it by his hand; and if he is not able, then with his tongue;
	and if he is not able, then with his heart – and that is the weakest of
	_faith."
35	On the authority of Abū Hurayrah, who said: The Messenger of
	C Allah () said: "Do not envy one another; do not deceive one
	another in bidding; do not hate one another; do not turn your backs
	on one another; and do not intrude on the transactions of one
	another, but be, O servants of Allah, brothers. A Muslim is the
	brother of a Muslim: he neither oppresses him nor abandons him;
	he neither lies to him nor looks down on him. Righteousness is
	right here – and he pointed to his breast three times. It is sufficient
	evil for a person to look down upon his brother Muslim. The whole
	of a Muslim to another Muslim is inviolable: his blood, his
	property and his honor."
36	On the authority of Abū Hurayrah that the Prophet () said:
	"Whoever relieves a believer of a distress from the distresses of
	this world – Allah will relieve him of a distress from the distresses
	of the Day of Resurrection. And whoever facilitates [a matter] for
	one in financial difficulty – Allah will facilitate for him [matters] in
L	That will the first of the firs

[
	this world and the Hereafter. And whoever covers [the fault of] a
	Muslim – Allah will cover his [faults] in this world and the
	Hereafter. Allah is in aid of [His] servant as long as the servant is
	in aid of his brother. And whoever follows a path seeking
	knowledge therein – Allah will facilitate for him a path to Paradise.
	No people assemble in one of the houses of Allah reciting the Book
	of Allah and studying it among themselves but that tranquility
	descends upon them, mercy envelops them, the angels surround
	them, and Allah mentions them among those with Him. And he
	whose deeds slow him down will not be accelerated by his
	lineage."
37	On the authority of Ibn 'Abbas from the Messenger of Allah () is
	that among the sayings he relates from his Lord (glorified and
	exalted be He) is that He said: "Allah has registered the good deeds
	and the bad ones. Then He clarified it, [saying], 'He who intended
	[to do] a good deed and did not do it – Allah writes it with Himself
	as a complete good deed; and if he intended it and did it – Allah
	writes it with Himself as ten good deeds up to seven hundred times
	or many times [over that]. And if he intended [to do] a bad deed
	and did not do it – Allah writes it with Himself as a complete good
	deed; but if he intended it and did it $-$ Allah writes it as one bad
	deed.""
38	On the authority of Abu Hurayrah, who said: The Messenger of
	Allah () said: "Allah, the Exalted, has said,234 'Whoever is an
	enemy to My loyal friend – on him I declare war. My servant does
	not draw near to Me with anything more loved by Me than what
	[religious obligations] I have imposed on him. And My servant
	continues to draw near to Me with additional works until I love
	him; and when I love him, I am his hearing with which he hears,
	his sight with which he sees, his hand with which he strikes, and
	his foot with which he walks. If he asked [something] of Me, I
C	would surely give it to him; and if he sought refuge with Me, I
	would surely grant it to him."
39	On the authority of Ibn 'Abbās that the Messenger of Allah () said:
8	"Allah has overlooked for me from my nation [what is done in]
	error and forgetfulness and what they are compelled to do."
40	On the authority of Ibn 'Umar, who said: The Messenger of Allah
	() took me by the shoulder and said, "Be in the world as though you
	were a stranger or a wayfarer." And Ibn 'Umar used to say, "When
	you have reached the evening, do not await the morning; and when
	you have reached morning, do not await the evening. Take from
	your health for your illness and from your life for your death."
41	On the authority of Abū Muhammad, `Abdullāh the son of `Amr
	bin al-'Aas, who said: The Messenger of Allah () said: "None of
	you [truly] believes until his inclination is in accordance with what
	I have brought."

42	On the authority of Anas, who said: I heard the Messenger of Allah
	() say: "Allah, the Exalted, has said, 'O son of Ādam, as long as
	you supplicate Me and implore Me, I will forgive for you whatever
	issued from you, and I will not mind. O son of Ādam, even if your
	sins reached the clouds of the sky and then you sought My
	forgiveness, I would forgive you. O son of Ādam, even if you
	come to Me with nearly the earth's capacity of sins and then meet
	Me without associating anything with Me, I will come to you with
	nearly its capacity of forgiveness."

Quality	#1 ID	#2 ID	#1 String	#2 String
1	702876	702977	Amrozi accused his	Referring to him as
			brother, whom he	only "the witness",
			called "the witness",	Amrozi accused his
			of deliberately	brother of
			distorting his	deliberately
			evidence.	distorting his
				evidence.
0	2108705	2108831	Yucaipa owned	Yucaipa bought
			Dominick's before	Dominick's in 1995
			selling the chain to	for \$693 million and
			Safeway in 1998 for	sold it to Safeway
			\$2.5 billion.	for \$1.8 billion in
				1998.
1	1330381	1330521	They had published an	On June 10, the
			advertisement on the	ship's owners had
	STATE	ISLA	Internet on June 10,	published an
C	IINI	ANI	offering the cargo for	advertisement on the
	UN	AN	sale, he added.	Internet, offering the
)				explosives for sale.
0	3344667	3344648	Around 0335 GMT,	Tab shares jumped
			Tab shares were up 19	20 cents, or 4.6%, to
			cents, or 4.4%, at	set a record closing
			A\$4.56, having earlier	high at A\$4.57.
			set a record high of	
	100 (000)	100 (710	A\$4.57.	
1	1236820	1236712	The stock rose \$2.11,	PG&E Corp. shares
			or about 11 percent, to	jumped \$1.63 or 8
			close Friday at \$21.51	percent to \$21.03 on
			on the New York	the New York Stock
			Stock Exchange.	Exchange on Friday.

Appendix 4 100 First Row of Microsoft Research (MSR) Paraphrase Corpus

	1	1		
1	738533	737951	Revenue in the first	With the scandal
			quarter of the year	hanging over
			dropped 15 percent	Stewart's company,
			from the same period	revenue the first
			a year earlier.	quarter of the year
			-	dropped 15 percent
				from the same period
				a year earlier.
0	264589	264502	The Nasdaq had a	The tech-laced
-			weekly gain of 17.27,	Nasdaq Composite
			or 1.2 percent, closing	.IXIC rallied 30.46
			at 1,520.15 on Friday.	points, or 2.04
				percent, to 1,520.15.
1	579975	579810	The DVD-CCA then	The DVD CCA
1	517715	575010	appealed to the state	appealed that
			Supreme Court.	decision to the U.S.
			Supreme Court.	
0	3114205	3114194	That compared with	Supreme Court.
0	5114205	5114194	\$35.18 million, or 24	Earnings were
				affected by a non-
			cents per share, in the	recurring \$8 million
			year-ago period.	tax benefit in the
	10	10	TT	year-ago period.
1	1355540	1355592	He said the	"The foodservice pie
			foodservice pie	business does not fit
			business doesn't fit the	our long-term
			company's long-term	growth strategy.
			growth strategy.	
0	222621	222514	Shares of Genentech,	Shares of Xoma fell
			a much larger	16 percent in early
	CTATE		company with several	trade, while shares
	SIAIL	ISLA	products on the EKSI	of Genentech, a
C		AN	market, rose more	much larger
3			than 2 percent.	company with
		C 1/	AIZADT	several products on
	YU	GY	AKART	the market, were up
				2 percent.
0	3131772	3131625	Legislation making it	Legislation making
		l	harder for consumers	it harder for
		l	to erase their debts in	consumers to erase
		l	bankruptcy court won	their debts in
		l	overwhelming House	bankruptcy court
		l	approval in March.	won speedy, House
		l		approval in March
		l		and was endorsed by
		l		the White House.
L	<u>I</u> .	L		

0	58747	58516	The Nasdaq composite	The Nasdaq
			index increased 10.73,	Composite index,
			or 0.7 percent, to	full of technology
			1,514.77.	stocks, was lately up
				around 18 points.
1	1464126	1464107	But he added group	De Sole said in the
			performance would	results statement that
			improve in the second	group performance
			half of the year and	would improve in
			beyond.	the second half of
				the year and beyond.
1	771416	771467	He told The Sun	"Saddam's daughters
			newspaper that Mr.	had British schools
			Hussein's daughters	and hospitals in
			had British schools	mind when they
			and hospitals in mind	decided to ask for
			when they decided to	asylum especially
			ask for asylum.	the schools," he told
				The Sun.
0	142746	142671	Gyorgy Heizler, head	The head of the local
			of the local disaster	disaster unit, Gyorgy
	_		unit, said the coach	Heizler, said the
			was carrying 38	coach driver had
			passengers.	failed to heed red
				stop lights.
0	1286053	1286069	Rudder was most	Senior Vice
			recently senior vice	President Eric
			president for the	Rudder, formerly
			Developer & Platform	head of the
	CTATE		Evangelism Business.	Developer and
	SIAI	: ISLA/	MIC UNIVERSI	Platform Evangelism
C	IINI	ANI		unit, will lead the
3			NALIJA	new entity.
0	1563874	1563853	As well as the dolphin	Internal chaos has
	YU	G Y	scheme, the chaos has	allowed foreign
			allowed foreign	companies to set up
			companies to engage	damaging
			in damaging logging	commercial logging
			and fishing operations	and fishing
			without proper	operations without
			monitoring or export	proper monitoring or
			controls.	export controls.
0	2029631	2029565	Magnarelli said	His wife said he was
			Racicot hated the Iraqi	"100 percent behind
			regime and looked	George Bush" and
			forward to using his	looked forward to

r				
			long years of training	using his years of
			in the war.	training in the war.
1	2150265	2150184	Sheena Young of	Sheena Young, a
			Child, the national	spokesman for
			infertility support	Child, the national
			network, hoped the	infertility support
			guidelines would lead	network, said the
			to a more "fair and	proposed guidelines
			equitable" service for	should lead to a
			infertility sufferers.	more "fair and
				equitable" service
				for infertility
	0011010			sufferers.
0	2044342	2044457	"I think you'll see a lot	"I think you'll see a
			of job growth in the	lot of job growth in
			next two years," he	the next two years,"
			said, adding the	said Mankiw.
			growth could replace	
1	1284150	1284173	jobs lost.	Donthar's redacioned
1	1204130	1204173	The new Finder puts a user's folders, hard	Panther's redesigned
			drive, network servers,	Finder navigation tool puts a user's
			iDisk and removable	favourite folders,
			media in one location,	hard drive, network
			providing one-click	servers, iDisk and
			access.	removable media in
				one location.
1	3270389	3270327	But tropical storm	Tropical storm
_			warnings and watches	warnings were in
			were posted today for	place Thursday for
	STATE	ISLA	Haiti, western portions	Jamaica and Haiti
C	IINI	ANI	of the Dominican	and watches for the
3	UN	AN	Republic, the	western Dominican
		0 1	southeastern Bahamas	Republic, the
	Y ()	GY	and the Turk and	southeastern
			Caicos islands.	Bahamas and the
				Turks and Caicos
				islands.
1	2294059	2294112	A federal magistrate in	Zuccarini was
			Fort Lauderdale	ordered held without
			ordered him held	bail Wednesday by a
			without bail.	federal judge in Fort
-				Lauderdale, Fla.
0	1713015	1712982	A BMI of 25 or above	A BMI between 18.5
			is considered	and 24.9 is
			overweight; 30 or	considered normal,

r				
			above is considered	over 25 is considered
			obese.	overweight and 30 or
				greater is defined as
				obese.
0	487993	487952	The dollar was at	The dollar was at
			116.92 yen against the	116.78 yen JPY=,
			yen , flat on the	virtually flat on the
			session, and at 1.2891	session, and at
			against the Swiss	1.2871 against the
			franc, also flat.	Swiss franc CHF=,
				down 0.1 percent.
1	1321918	1321644	Six months ago, the	But six months ago,
			IMF and Argentina	the two sides
			struck a bare-	managed to strike a
			minimum \$6.8-billion	\$6.8-billion debt
			debt rollover deal that	rollover deal, which
			expires in August.	expires in August.
1	1239046	1239031	Inhibited children tend	Simply put, shy
			to be timid with new	invividuals tend to
			people, objects, and	be more timid with
			situations, while	new people and
			uninhibited children	situations.
			spontaneously	
			approach them.	
1	2907515	2907224	I wanted to bring the	"I wanted to bring
			most beautiful people	the most beautiful
			into the most beautiful	people into the most
			building, he said	beautiful building,"
			Sunday inside the	Tunick said Sunday.
	07475		Grand Central	
	SIAI	: ISLA/	concourse. VERS	IY
0	2791650	2791604	The broad Standard &	The S&P 500 index
3	UIN	AIN	Poor's 500 <.SPX>	was up 1.26, or 0.1
		0.1	fell 10.75 points, or	percent, to 1,039.32
	Y ()	GY	1.02 percent, to	after sinking 10.75
)		1,039.32.	yesterday.
0	2559762	2559517	Duque will return to	Currently living
			Earth Oct. 27 with the	onboard the space
			station's current crew,	station are American
			U.S. astronaut Ed Lu	astronaut Ed Lu and
			and Russian	Russian cosmonaut
			cosmonaut Yuri	Yuri Malenchenko.
			Malenchenko.	
1	105493	105432	Singapore is already	Although a small
			the United States'	city-state, Singapore
			12th-largest trading	is the 12th-largest

I			[
			partner, with two-way	trading partner of the
			trade totaling more	United States, with
			than \$34 billion.	trade volume of
				\$33.4 billion last
				year.
1	1989515	1989458	The AFL-CIO is	The AFL-CIO
			waiting until October	announced
			to decide if it will	Wednesday that it
			endorse a candidate.	will decide in
				October whether to
				endorse a candidate
				before the primaries.
0	1783137	1782659	No dates have been set	No dates have been
			for the civil or the	set for the criminal
			criminal trial.	or civil cases, but
				Shanley has pleaded
				not guilty.
1	14663	14617	The largest gains were	Sub-indexes
			seen in prices, new	measuring prices,
			orders, inventories and	new orders,
			exports.	inventories and
	1 (0 0 0 0 0	1 (0 0 0 7 1		exports increased.
1	1692902	1692851	Trading in Loral was	The New York Stock
			halted yesterday; the	Exchange suspended
			shares closed on	trading yesterday in
			Monday at \$3.01.	Loral, which closed
	1400561	1400/70		at \$3.01 Friday.
0	1480561	1480670	Earnings per share	That beat the
			from recurring	company's April
	STATE		operations will be 13	earnings forecast of
	2000424	2000441	cents to 14 cents.	8 to 9 cents a share.
	3089434	3089441	He plans to have	After that, he plans
0			dinner with troops at	to have dinner at
	VO	CV	Kosovo's U.S. military	Camp Bondsteel
		UI	headquarters, Camp Bondsteel.	with U.S. troops
1	2520111	2520021		stationed there.
1	2538111	2538021	Retailers J.C. Penney Co. Inc.	JCP
1	1341941	1341915	Prosecutors filed a	He added that
	1341941	1341913		prosecutors will seek
			motion informing Lee	1
			they intend to seek the death penalty	the death penalty.
1	374967	375017	death penalty.	Last year the court
	5/490/	575017	Last year the court upheld Cleveland's	Last year, the court ruled 5-4 in an Ohio
			school voucher	
				case that government
			program, ruling 5-4	vouchers are

			that vouchers are	constitutional if they
			constitutional if they	provide parents with
			provide parents a	choices among a
			choice of religious and	range of religious
			secular schools.	and secular schools.
0	2321401	2321455	He beat testicular	Armstrong, 31,
			cancer that had spread	battled testicular
			to his lungs and brain.	cancer that spread to
				his brain.
1	1356545	1356676	Sorkin, who faces	Sorkin was to have
			charges of conspiracy	been tried separately
			to obstruct justice and	on charges of
			lying to a grand jury,	conspiracy and lying
			was to have been tried	to a grand jury.
			separately.	
0	2198036	2198094	Graves reported from	Pete Slover reported
			Albuquerque,	from Laredo and
			Villafranca from	Gromer Jeffers from
			Austin and Ratcliffe	Albuquerque.
			from Laredo.	
1	921159	921272	The US chip market is	The Americas
	_		expected to decline	market will decline
			2.1 percent this year,	2.1 percent to \$30.6
			then grow 15.7	billion in 2003, and
			percent in 2004.	then grow 15.7
				percent to \$35.4
				billion in 2004.
1	740726	739960	The group will be	The group will be
			headed by State	headed by John S.
	CTATE		Department official	Wolf, an assistant
	SIAI	: ISLA	John S. Wolf, who has	secretary of state
C	IINI		served in Australia,	who has served in
5			Vietnam, Greece and	Australia, Vietnam,
		C N	Pakistan.	Greece and Pakistan.
0	284798	284937	The commission must	An average
			work out the plan's	residential customer
			details, but the	paying \$840 a year
			average residential	for electricity could
			customer paying \$840	see a savings of \$30
			a year would get a	annually.
			savings of about \$30	
	10111	101115	annually.	
1	1041293	1041421	The company has said	The company had
			it plans to restate its	announced in
			earnings for 2000	January that it would
			through 2002.	have to restate

				earnings for 2002, 2001 and perhaps
				2001 and perhaps 2000.
1	2630545	2630577	Results from No. 2 U.S. soft drink maker PepsiCo Inc. PEP.N were likely to be in the spotlight.	Results from No. 2 U.S. soft drink maker PepsiCo Inc.
1	1014977	1014962	"The result is an overall package that will provide significant economic growth for our employees over the next four years."	"The result is an overall package that will provide a significant economic growth for our employees over the next few years," he said.
1	3039165	3039036	Wal-Mart said it would check all of its million-plus domestic workers to ensure they were legally employed.	It has also said it would review all of its domestic employees more than 1 million to ensure they have legal status.
1	2674986	2674800	The songs are on offer for 99 cents each, or \$9.99 for an album.	The company will offer songs for 99 cents and albums for \$9.95.
1	2193346 STATE	2193362 ISLAN	However, the talk was downplayed by PBL which said it would focus only on smaller	The talk, however,has been downplayed by PBL which said it would
S	UN Y O	AN G Y	purchases that were immediately earnings and cash flow accretive.	focus only on smaller purchases that were immediately earnings and cash flow-accretive.
1	149798	149596	Comcast Class A shares were up 8 cents at \$30.50 in morning trading on the Nasdaq Stock Market.	The stock rose 48 cents to \$30 yesterday in Nasdaq Stock Market trading.
0	1490811	1490840	While dioxin levels in the environment were up last year, they have dropped by 75 percent	The Institute said dioxin levels in the environment have fallen by as much as

			since the 1970s, said	76 percent since the
	10(110	10(010	Caswell.	1970s.
1	426112	426210	This integrates with	IBM said the
			Rational PurifyPlus	Rational products
			and allows developers	were also integrated
			to work in supported	with Rational
			versions of Java,	PurifyPlus, which
			Visual C# and Visual	allows developers to
			Basic .NET.	work in Java, Visual
				C# and VisualBasic
1	010200	010105		.Net.
1	213302	213135	The Washington Post	The plant plans to
			said Airlite would shut	shut down its first
			down its first shift and	shift and parts of the
			parts of the second	second shift Monday
			shift Monday to	to accommodate the
			accommodate the	president's
			president's	appearance, Crosby said.
0	1963350	1963106	appearance.	
0	1903330	1903100	A former teammate, Carlton Dotson, has	His body was found July 25, and former
			been charged with the	teammate Carlton
			murder.	Dotson has been
			muruer.	charged in his
				shooting death.
1	3035675	3035707	Several of the	Several of the
			questions asked by the	audience questions
			audience in the fast-	were new to the
			paced forum were new	candidates as well.
			to the candidates.	
1	622300	622384	Meanwhile, the global	The global death toll
C	LINI	ANI	death toll approached	from SARS was at
3		AIN	770 with more than	least 767, with more
	VO	C 1/	8,300 people sickened	than 8,300 people
	YU	GY	since the severe acute	sickened since the
			respiratory syndrome	virus first appeared
			virus first appeared in	in southern China in
			southern China in	November.
			November.	
0	962311	962987	The battles marked	Twenty-seven Iraqis
			day four of a U.S.	were killed, pushing
			sweep to hunt down	the number of
			supporters of Saddam	opposition deaths to
			Hussein's fallen	about 100 in a U.S.
			regime.	operation to hunt
				down supporters of

025062572506206The women then had follow-up examinations after five, 12 and 24 years.Saddam Hussein's fallen regime.025062572506206The women then had follow-up examinations after five, 12 and 24 years.The women had follow-up examinations in 1974-75, 1980-81	
025062572506206The women then had follow-up examinations after five, 12 and 24 years.The women had follow-up examinations in 1974-75, 1980-81	
follow-up examinations after five, 12 and 24 years.follow-up examinations in 1974-75, 1980-81	
examinations after five, 12 and 24 years. 1974-75, 1980-81	
five, 12 and 24 years. 1974-75, 1980-81	
14000.00.1	
and 1992-93, but	
were not asked at	out
stress again.	
0 221038 221083 The Embraer jets are The Bombardier a	
scheduled to be Embraer aircraft	
delivered by be delivered to U.	S.
September 2006. Airways by	
September 2006.	
1 1097577 1097664 Contrary to what Ellison said that	
PeopleSoft contrary to the	
management would contentions of	
have you believe, PeopleSoft	
Oracle intends to fully management, Ora	cle
support PeopleSoft intends to "fully	
customers and support PeopleSo	ft
products for many customers and	
years to come." products" for mar	ıy İ
years to come.	
0 218017 218035 Application The new application	on
Intelligence will be intelligence feature	es
included as part of the will be available	
company's June 3 and are	
SmartDefense included with the	
application, which is SmartDefense	
SIAL ISLA included with VERS product, which	
Firewall-1. comes with	
SUNAINALIA FireWall-1.	
0 2277501 2277502 American Masters: Note the subhead	ng
Arthur Miller, Elia of this terrible	
Kazan and the parable in the	
Blacklist: None "American Maste	rs"
Without Sin (Wed. series, "Arthur	
Miller, Elia Kazar	1
and the Blacklist:	
None Without Sin	ı."
1 423245 423228 The downtime, to take The downtime is	
place in May and expected to take 6	50
June, is expected to million to 70 mill	
cut production by 60 board feet out of t	he
companys system	

			million to 70 million	
			board feet.	
1	1336931	1336883	On July 3, Troy is	Troy faces life in
			expected to be	prison without
			sentenced to life in	parole at his July 30
			prison without parole.	sentencing.
1	2208366	2208492	The University of	The University of
			Michigan released a	Michigan released
			new undergraduate	today a new
			admission process	admissions policy
			Thursday, dropping a	after the U.S.
			point system the U.S.	Supreme Court
			Supreme Court found	struck down in June
			unconstitutional in	the way it previously
			June.	admitted
				undergraduates.
1	2405153	2405189	The processors were	The new processor
		2.00107	announced in San Jose	was unveiled at the
			at the Intel Developer	Intel Developer
			Forum.	Forum 2003 in San
			i orum.	Jose, Calif.
0	3334905	3334946	The Justice	The Justice
0	3334703	5554740	Department filed suit	Department filed a
			Thursday against the	civil rights lawsuit
			state of Mississippi for	Thursday against the
			failing to end what	state of Mississippi,
			federal officials call	alleging abuse of
			"disturbing" abuse of	juvenile offenders at
			juveniles and	two state-run
			"unconscionable"	facilities.
	STATE		conditions at two	Tacinities.
0			state-run facilities.	
	1641162	16/1062		The document cove
	1041102	1041002	It said the damage to	The document says
	VO	CV	the wing provided a	the damage to the
	IU	UI	pathway for hot gasses	wing provided a
			to penetrate the ship's	pathway for hot
			thermal armor during	gases to penetrate
			Columbia's ill-fated	Columbia's thermal
			reentry.	armour during its
4	044070	0.42000	A1 1 / ···	fatal re-entry.
1	244062	243899	Also demonstrating	Also demonstrating
			box-office strength _	box-office strength -
			and getting seven	- and getting seven
			Tony nominations _	Tony nominations
			was a potent revival of	was a potent revival
			Eugene O'Neill's	of Eugene ONeills

			ſ	
			family drama, "Long	family drama, Long
			Day's Journey Into	Days Journey Into
			Night."	Night."
1	1439663	1439808	The top rate will go to	For residents with
			4.45 percent for all	incomes above
			residents with taxable	\$500,000, the
			incomes above	income-tax rate will
			\$500,000.	increase to 4.45
				percent.
1	2070455	2070493	But Secretary of State	Secretary of State
			Colin Powell brushed	Colin Powell last
			off this possibility	week ruled out a
			Wednesday.	non-aggression
				treaty.
1	1996069	1996101	Thomas and Tauzin	Like many doctors,
			say, as do many	Mr. Thomas and Mr.
			doctors, that the Bush	Tauzin say the Bush
			administration has the	administration has
			power to correct some	the power to correct
			of those flaws.	some of those flaws.
1	23807	23792	Based on experience	U.S. military
			elsewhere, it could	officials have said it
			take up to two years	could take up to two
			before regular	years before regular
			elections are held, he	elections are held,
			added.	based on experiences
				elsewhere in the
				world.
1	3147370	3147525	The results appear in	The results appear in
	07.5		the January issue of	the January issue of
	SIAIE	: ISLA/	Cancer, an American	Cancer, an American
C	IINI	ANI	Cancer Society	Cancer Society
3	UIN		journal, being	(news - web sites)
		C 1/	published online	journal, being
	YO	GY	today.	published online
				Monday.
1	1211287	1210972	The first	The first
			biotechnology	biotechnology
			treatment for asthma,	treatment for asthma,
			the constriction of the	the constriction of
			airways that affects	the airways that
			millions around the	affects millions of
			world, received	Americans, received
			approval from the US	approval from the
			Food and Drug	U.S. Food and Drug

r	1	[
			Administration	Administration on
			yesterday.	Friday.
1	3300040	3299992	The delegates said	Bin Laden's men
			raising and	pointed out that
			distributing funds has	raising and
			been complicated by	distributing funds
			the U.S. crackdown on	has been
			jihadi charitable	complicated by the
			foundations, bank	U.S. crackdown on
			accounts of terror-	jihadi charitable
			related organizations	foundations, bank
			and money transfers.	accounts of terror-
				related organizations
				and money transfers.
1	2512758	2512692	FBI agents arrested a	A former partner of
1	2312130	2312072	former partner of Big	accountancy firm
			Four accounting firm	Ernst & Young was
			Ernst & Young	yesterday arrested by
			ERNY.UL on criminal	FBI agents in the US
			charges of obstructing	on charges of
			federal investigations,	obstructing federal
			U.S. officials said on	investigations.
			Thursday.	
0	3183829	3183863	Kelly will begin	Russian Deputy
			meetings with Russian	Foreign Minister
			Deputy Foreign	Alexander Losyukov
			Minister Alexander	said in Moscow
			Losyukov in	Tuesday a firm date
			Washington on	would be fixed by
			Monday.	this months end.
1	3257588	3257537	The latest shooting	Another shooting
C	LINI	ANI	linked to the spree was	linked to the spree
	UN	AN	a November 11	occurred Nov. 11 at
			shooting at Hamilton	Hamilton Central
	Y ()	GY	Central Elementary	Elementary in Obetz,
			School in Obetz, about	about two miles
			3km from the freeway.	from the freeway.
0	524136	524119	"Sanitation is poor	"Sanitation is poor,
			there could be typhoid	drinking water is
			and cholera," he said.	generally left behind
				there could be
				typhoid and
				cholera."
0	1321343	1321577	The Dow Jones	In early trading, the
			Industrial Average	Dow Jones industrial
			ended down 128	average was up 3.90,
	1	1		

			points, or 1.4%, at	or 0.04 percent, at
			9073, while the	9,113.75, having
			Nasdaq fell 34 points,	gained 36.90 on
			or 2.1%, to 1610.	Tuesday.
1	2560856	2560808	PDC will also almost	PDC will also almost
			certainly fan the	certainly reignite
			flames of speculation	speculation about
			about Longhorn's	release dates of
			release.	Microsoft's new
				products.
1	2728434	2728420	Sales - a figure	It also disclosed that
			watched closely as a	sales a figure
			barometer of its health	closely watched by
			- rose 5 percent	analysts as a
			instead of falling as	barometer of its
			many industry experts	health were
			had predicted.	significantly higher
				than industry experts
				expected.
1	3277643	3277659	NEC is pitching its	NEC's pitching its
			wireless gear and	wireless gear and
			management software	management
			to a variety of	software to a variety
			industries, including	of industries,
			health care and	including healthcare
			hospitality.	and hospitality, a
				company spokesman
				said.
1	2621134	2621174	Elena Slough,	ELENA Slough,
	CT		considered to be the	considered to be the
	SIAIE	: ISLA/	nation's oldest person	oldest person in the
C	IINI	ANI	and the third oldest	US and the third
3	UIN	AIN	person in the world,	oldest person in the
		0 14	died early Sunday	world, has died.
	YO	GY	morning.	A
1	2529661	2529575	"We are declaring war	"We have declared
			on sexual harassment	war on sexual assault
			and sexual assault.	and sexual
				harassment," Rosa
				said.
0	953744	953727	The technology-laced	The technology-
			Nasdaq Composite	laced Nasdaq
			Index <.IXIC> added	Composite Index
1			1.02 maints on 0.12	IVIC dimed 0.00 of
			1.92 points, or 0.12	.IXIC dipped 0.08 of

0	1268733	1268445	The dollar was at	Against the Swiss
			117.85 yen against the	franc the dollar was
			Japanese currency, up	at 1.3289 francs, up
			0.1 percent.	0.5 percent on the
				day.
0	969512	969295	The broader Standard	The technology-
			& Poor's 500 Index	laced Nasdaq
			.SPX gave up 11.91	Composite Index
			points, or 1.19	was down 25.36
			percent, at 986.60.	points, or 1.53
				percent, at 1,628.26.
1	304482	304430	El Watan, an Algerian	El Watan, an
1	501102	501150	newspaper, reported	Algerian newspaper,
			that the kidnappers	reported that the
			fiercely resisted the	kidnappers put up
			army assault this	fierce resistance
			morning, firing	during the army
			Kalashnikov rifles.	assault, firing
			Kalashinkov Intes.	Kalashnikov rifles.
0	472952	472535	Dut Miteuhichi Talara	Sumitomo Mitsui
0	472952	472555	But Mitsubishi Tokyo	
			Financial (JP:8306:	Financial (JP:8316:
			news, chart, profile)	news, chart, profile)
			declined 3,000 yen, or	was down 2.5
			0.65 percent, to	percent at 198,000
			456,000 yen.	yen.
0	3119349	3119343	"We're just dealing	"Leaving aside
			with bragging rights	attorney fees, we're
			here, who wins and	dealing with
			who loses."	bragging rights of
	CTATE			who wins and who
	SIAI	: ISLA/	VIIC UNIVERSI	loses," said
C		ANI		Gammerman.
3	224868	225233	Shares of Hartford	Shares of Hartford
		0.11	rose \$2.88 to \$46.50	were up \$2.28, or 5.2
	YU	GY	in New York Stock	percent, to \$45.90 in
			Exchange composite	midday trading.
			trading.	
0	2678208	2678191	This Palm OS smart	This was almost
			phone is the last	certainly its last full
			product the company	quarter before the
			will release before it	company becomes a
			becomes a part of	part of Palm.
			palmOne.	•
0	1177915	1178039	And they think the	They researchers say
			protein probably is	the research could be
			involved in the spread	
L	1	L	involveu in the spread	

			of other forms of	relevant to other
			cancer.	forms of cancer.
1	129193	129302	Tokyo Electric Power	Tokyo Electric
			Co., Asia's largest	Power Co., Asia's
			power company, won	largest power
			approval to restart the	company, restarted
			first of 17 nuclear	the first of 17
			reactors it shut down	nuclear reactors it
			after it admitted	shut down after
			falsifying inspection	admitting it falsified
			reports.	inspection reports.



CURRICULUM VITAE

A. Personal Information

Full Name	: Muhammad Raffiudin
Sex	: Male
Place and Date of Birth	: Ponorogo, January 18th 1996
Address	: - Bukit Ketok, Belinyu,
	Bangka, Bangka Belitung.
	- Caturtunggal, Depok,
	Sleman, DI Yogyakarta
email	: muhammadraff@outlook.com

B. Formal Academic Background

Grade	School Name	Year
Kindergarten	TK BA Aisyiyah Ponorogo	2000
Elementary School	SD Muhammadiyah Ponorogo	2001 - 2003
Elementary School	SD Negeri 3 Belinyu	2004 - 2006
Middle School	MTS Plus Bahrul Ulum Sungailiat	2007
Middle School	SMP Yayasan Pendidikan Nasional Belinyu	2008 - 2010
High School	SMA Negeri 1 Pemali	2011 - 2014
College	Universitas Islam Negeri Sunan Kalijaga, Yogyakarta	2016 - 2020
College	Prince of Songkla University, Hat Yai, Thailand (Exchange Programme)	2019



