

milestoneReport

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2019/2/18

Executive summary

This milestone report for the Data Science Capstone project provides a summary of data preprocessing and exploratory data analysis of the data sets provided. Plans for creating the prediction algorithm and the Shiny app will also be discussed.

```
library(tm)
library(RWeka)
library(stringi)
library(ggplot2)
library(dplyr)
```

Data description and summary statistics

In this project, the following data is provided.

```
file1 <- file("./final/en_US/en_US.blogs.txt", "rb")
blogs <- readLines(file1, encoding = "UTF-8")
close(file1)

file2 <- file("./final/en_US/en_US.news.txt", "rb")
news <- readLines(file2, encoding = "UTF-8")
close(file2)

file3 <- file("./final/en_US/en_US.twitter.txt", "rb")
twitter <- readLines(file3, encoding = "UTF-8")
```

```
## Warning in readLines(file3, encoding = "UTF-8"): line 167155 appears to
## contain an embedded nul
```

```
## Warning in readLines(file3, encoding = "UTF-8"): line 268547 appears to
## contain an embedded nul
```

```
## Warning in readLines(file3, encoding = "UTF-8"): line 1274086 appears to
## contain an embedded nul
```

```
## Warning in readLines(file3, encoding = "UTF-8"): line 1759032 appears to
## contain an embedded nul
```

```
close(file3)
```

A summary statistics is given below:

```
words_blogs <- stri_count_words(blogs)
words_news <- stri_count_words(news)
words_twitter <- stri_count_words(twitter)
size_blogs <- file.info("final/en_US/en_US.blogs.txt")$size/1024^2
size_news <- file.info("final/en_US/en_US.news.txt")$size/1024^2
size_twitter <- file.info("final/en_US/en_US.twitter.txt")$size/1024^2
summary_table <- data.frame(filename = c("blogs", "news", "twitter"),
```

```

file_size_MB = c(size_blogs, size_news, size_twitter),
num_lines = c(length(blogs), length(news), length(twitter)),
num_words = c(sum(words_blogs), sum(words_news), sum(words_twitter)),
mean_num_words = c(mean(words_blogs), mean(words_news), mean(words_twitter)))

summary_table

```

```

##  filename file_size_MB num_lines num_words mean_num_words
## 1    blogs    200.4242   899288  37546239    41.75107
## 2     news    196.2775  1010242  34762395    34.40997
## 3  twitter         NA   2360148  30093372    12.75063

```

Data preprocessing

We will randomly choose 1% of each data set to demonstrate data preprocessing and exploratory data analysis. The full dataset will be used later in creating the prediction algorithm.

```

set.seed(1)
blogsSample <- sample(blogs, length(blogs)*0.01)
newsSample <- sample(news, length(news)*0.01)
twitterSample <- sample(twitter, length(twitter)*0.01)
twitterSample <- sapply(twitterSample, function(row) iconv(row, "latin1", "ASCII", sub = ""))

```

We combine the three samples. The number of lines and total number of words are as follows:

```

text_sample <- c(blogsSample, newsSample, twitterSample)
length(text_sample)

```

```
## [1] 42695
```

```
sum(stri_count_words(text_sample))
```

```
## [1] 1020011
```

```
text_sample <- enc2utf8(text_sample)
```

```
## Warning in readLines(file0, encoding = "UTF-8"): line 1 appears to contain
## an embedded nul

```

```
## Warning in readLines(file0, encoding = "UTF-8"): line 3 appears to contain
## an embedded nul

```

```
## Warning in readLines(file0, encoding = "UTF-8"): incomplete final line
## found on 'profanities.RData'

```

The basic procedure for data preprocessing consists of the following key steps:

1. Construct a corpus from the files.
2. Tokenization. Clean up the corpus by removing special characters, punctuation, numbers etc. We also remove profanity that we do not want to predict.
3. Build basic n-gram model.

We will require the following helper functions in order to prepare our corpus.

```

toSpace <- content_transformer(function(x, pattern) gsub(pattern, " ", x))
preprocessCorpus <- function(corpus){
  # Helper function to preprocess corpus
  corpus <- tm_map(corpus, toSpace, "/|@|\\| |")
}

```

```

corpus <- tm_map(corpus, content_transformer(tolower))
corpus <- tm_map(corpus, removeNumbers)
corpus <- tm_map(corpus, removePunctuation)
corpus <- tm_map(corpus, removeWords, stopwords("english"))
corpus <- tm_map(corpus, removeWords, profanities)
corpus <- tm_map(corpus, stripWhitespace)
return(corpus)
}

freq_frame <- function(tdm){
  # Helper function to tabulate frequency
  freq <- sort(rowSums(as.matrix(tdm)), decreasing = TRUE)
  freq_frame <- data.frame(word=names(freq), freq=freq)
  return(freq_frame)
}

BigramTokenizer <- function(x) NGramTokenizer(x, Weka_control(min=2, max=2))
trigramTokenizer <- function(x) NGramTokenizer(x, Weka_control(min=3, max=3))
QuadgramTokenizer <- function(x) NGramTokenizer(x, Weka_control(min=4, max=4))

```

We preprocess the text sample to form Term Document Matrices.

```

text_sample <- VCorpus(VectorSource(text_sample))

#text_sample <- preprocessCorpus(text_sample)

tdm1a <- TermDocumentMatrix(text_sample)
tdm1 <- removeSparseTerms(tdm1a, 0.99)
freq1_frame <- freq_frame(tdm1)

tdm2a <- TermDocumentMatrix(text_sample, control = list(tokenize=BigramTokenizer))
tdm2 <- removeSparseTerms(tdm2a, 0.999)
freq2_frame <- freq_frame(tdm2)

tdm3a <- TermDocumentMatrix(text_sample, control = list(tokenize=trigramTokenizer))
tdm3 <- removeSparseTerms(tdm3a, 0.9999)
freq3_frame <- freq_frame(tdm3)

tdm4a <- TermDocumentMatrix(text_sample, control = list(tokenize=QuadgramTokenizer))
tdm4 <- removeSparseTerms(tdm4a, 0.9999)
freq4_frame <- freq_frame(tdm4)

```

Exploratory analysis

For each Term Document Matrix, we list the most common unigrams, bigrams, trigrams and fourgrams.

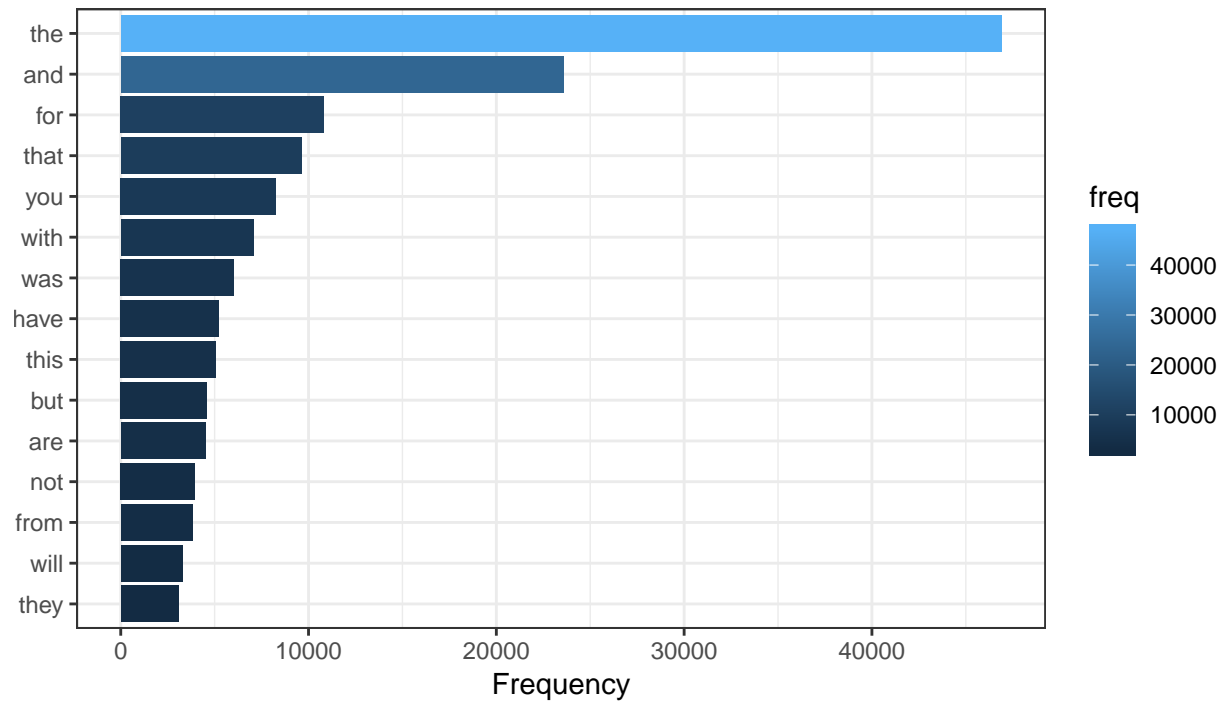
```

#wordcloud(freq1_frame$word, freq1_frame$freq, min.freq=200)

ggplot(freq1_top15, aes(x=reorder(word, freq), y=freq, fill=freq)) +
  geom_bar(stat="identity") +
  theme_bw() +
  coord_flip() +
  theme(axis.title.y = element_blank()) +
  labs(y="Frequency", title = "Most common unigrams in text sample")

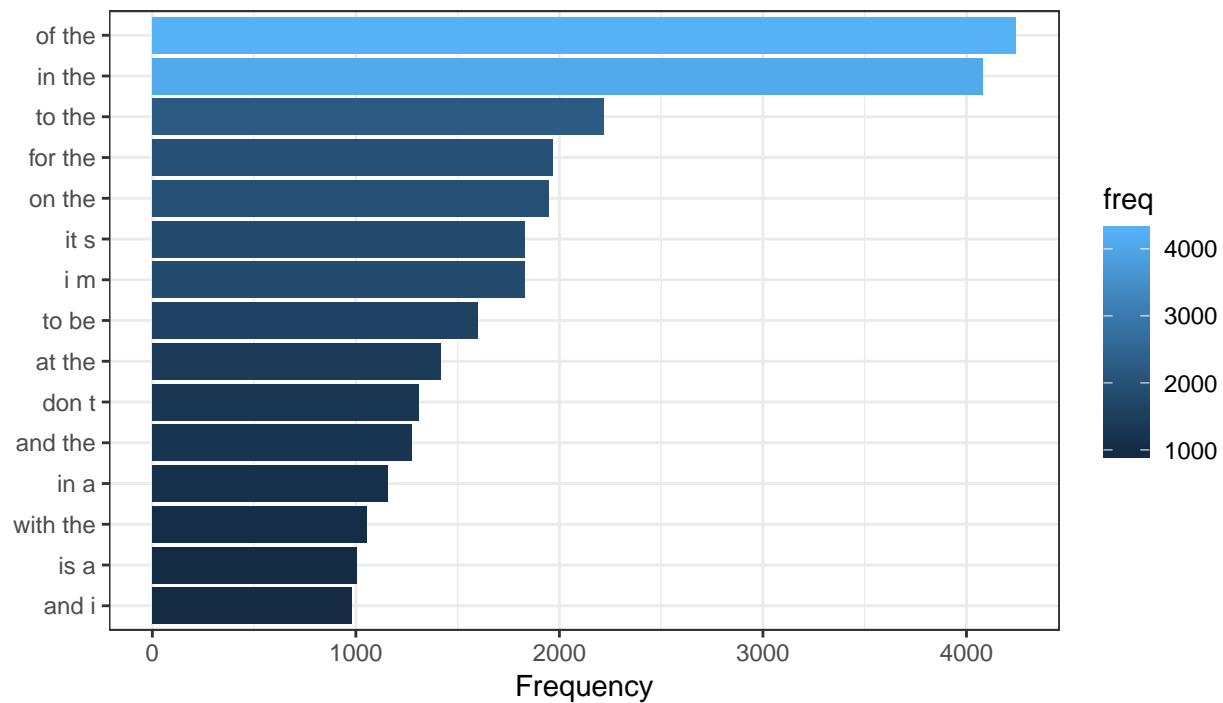
```

Most common unigrams in text sample



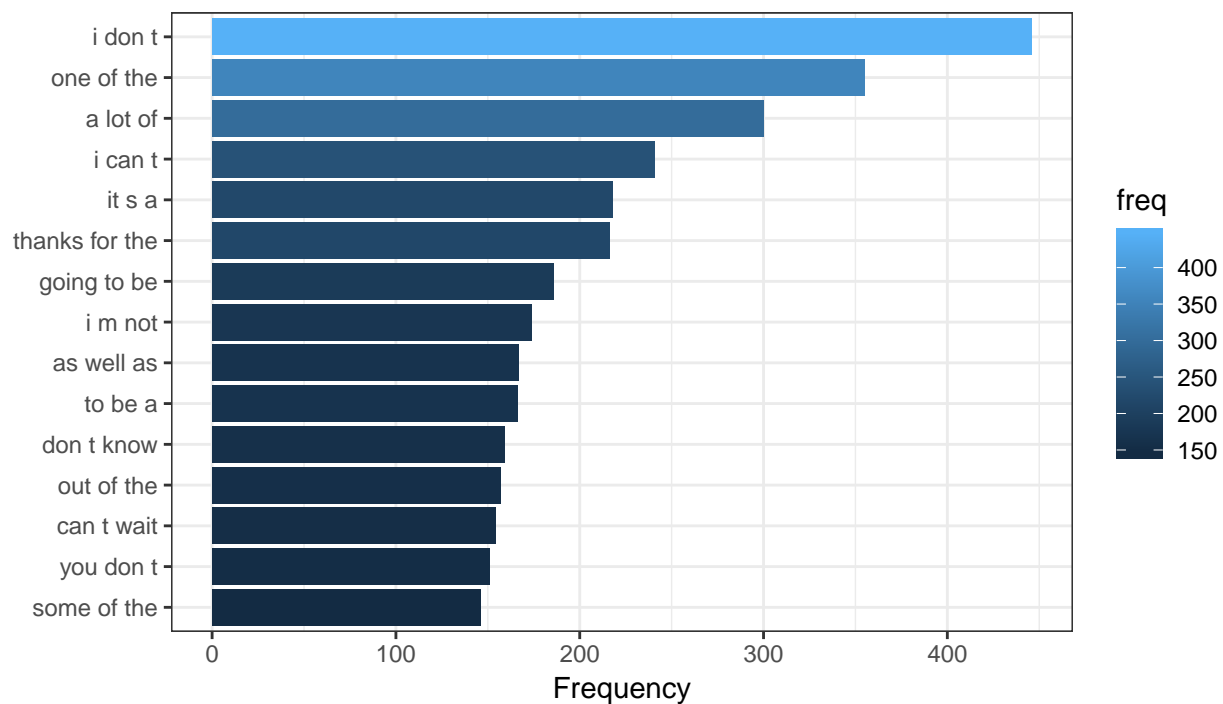
```
ggplot(freq2_top15, aes(x=reorder(word, freq), y=freq, fill=freq)) +  
  geom_bar(stat = "identity") +  
  theme_bw() +  
  coord_flip() +  
  theme(axis.title.y = element_blank()) +  
  labs(y="Frequency", title = "Most common bigrams in text sample")
```

Most common bigrams in text sample



```
ggplot(freq3_top15, aes(x=reorder(word, freq), y=freq, fill=freq)) +
  geom_bar(stat = "identity") +
  theme_bw() +
  coord_flip() +
  theme(axis.title.y = element_blank()) +
  labs(y="Frequency", title = "Most common trigrams in text sample")
```

Most common trigrams in text sample



```
ggplot(freq4_top15, aes(x=reorder(word, freq), y=freq, fill=freq)) +
  geom_bar(stat = "identity") +
  theme_bw() +
  coord_flip() +
  theme(axis.title.y = element_blank()) +
  labs(y="Frequency", title = "Most common quadgrams in text sample")
```

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```

## for <99>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'you don't want to' in 'mbcsToSbcs': dot substituted
## for <e2>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'you don't want to' in 'mbcsToSbcs': dot substituted
## for <80>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'you don't want to' in 'mbcsToSbcs': dot substituted
## for <99>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'you don't have to' in 'mbcsToSbcs': dot substituted
## for <e2>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'you don't have to' in 'mbcsToSbcs': dot substituted
## for <80>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'you don't have to' in 'mbcsToSbcs': dot substituted
## for <99>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'don't get me wrong' in 'mbcsToSbcs': dot substituted
## for <e2>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'don't get me wrong' in 'mbcsToSbcs': dot substituted
## for <80>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'don't get me wrong' in 'mbcsToSbcs': dot substituted
## for <99>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm not going to' in 'mbcsToSbcs': dot substituted
## for <e2>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm not going to' in 'mbcsToSbcs': dot substituted
## for <80>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'i'm not going to' in 'mbcsToSbcs': dot substituted
## for <99>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'i don't know if' in 'mbcsToSbcs': dot
## substituted for <e2>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'i don't know if' in 'mbcsToSbcs': dot
## substituted for <80>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'i don't know if' in 'mbcsToSbcs': dot
## substituted for <99>

```

```

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'you don't want to' in 'mbcsToSbcs': dot
## substituted for <e2>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'you don't want to' in 'mbcsToSbcs': dot
## substituted for <80>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'you don't want to' in 'mbcsToSbcs': dot
## substituted for <99>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'you don't have to' in 'mbcsToSbcs': dot
## substituted for <e2>

## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'you don't have to' in 'mbcsToSbcs': dot
## substituted for <80>

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## x$y, : conversion failure on 'you don't have to' in 'mbcsToSbcs': dot
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## x$y, : conversion failure on 'i'm not going to' in 'mbcsToSbcs': dot
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'i'm not going to' in 'mbcsToSbcs': dot
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## Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'i'm not going to' in 'mbcsToSbcs': dot
## substituted for <99>

```

