Trendwise Analytics

GOOD SOLUTIONS FOR YOUR BUSINESS!



Twitter sentiment Analysis

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Applications of Sentiment analysis

- Thousands of reviews about a new product Positive or negative?
- Millions of tweets about a new launch –How many of them are positive
- Lot of buzz about a new movie Hit or flop?
- How have bloggers' attitudes about the president changed since the election?
- Is this customer email satisfied or dis-satisfied?
- The final comments/verbatim text given by the responder



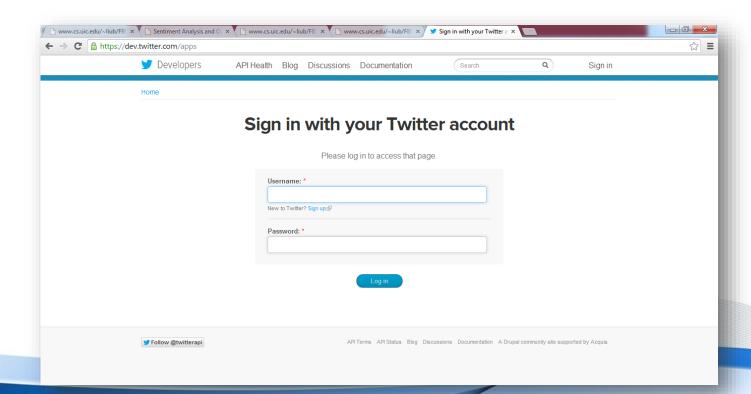
Real-time Twitter Sentiment Analysis

- 1. Create twitter developer account
- 2. Collect the data from twitter
- 3. Cleaning the data
- 4. Finding the sentiment
- 5. Creating the word cloud



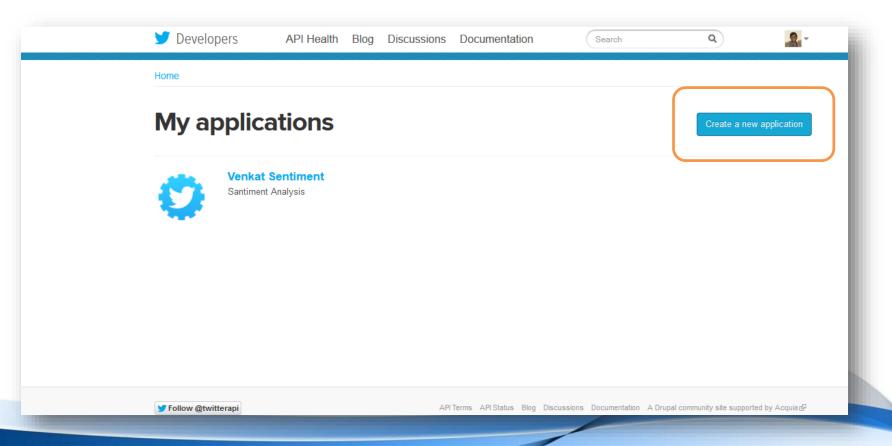
Create twitter developer account

- Get consumer key & consumer secret from twitter
 - https://dev.twitter.com/apps





Get consumer key & consumer secret from twitter





Install Necessary packages in R

- install.packages("ROAuth")
- install.packages("twitteR")
- install.packages("wordcloud")
- install.packages("tm")
- library("ROAuth")
- library("twitteR")
- library("wordcloud")
- library("tm")
- library(plyr)



R-Specific commands

```
download.file(url="http://curl.haxx.se/ca/cacert.pem",
destfile="cacert.pem")
requestURL='https://api.twitter.com/oauth/request_token',
accessURL='http://api.twitter.com/oauth/access token',
authURL='http://api.twitter.com/oauth/authorize')
#necessary step for Windows
cred$handshake(cainfo="cacert.pem")
save(cred, file="twitter authentication.Rdata")
registerTwitterOAuth(cred)
```



Collect the data from twitter

Tweets_download<- searchTwitter("Jaiho", n=1500, cainfo="cacert.pem")

Tweets_download<- searchTwitter("salman", n=1500, cainfo="cacert.pem")

#file for sentiment

Sentiment.text = laply(Tweets_download, function(t)t\$getText())



Sentiment Analysis

- Final_sentiment_result = score.sentiment(Sentiment.text, pos, neg)
- View(Final_sentiment_result)
- table(Final_sentiment_result\$score)
- mean(Final_sentiment_result\$score)
- hist(Final_sentiment_result\$score)



Word Cloud

- #Word cloud text
- Tweets_download_text <- sapply(Tweets_download, function(x) x\$getText())
- #create corpus
- Tweets_download_text_corpus <-Corpus(VectorSource(Tweets_download_text))
- wordcloud(Tweets_download_text_corpus)

