

Evan Woods Twitter Medicine Against Depression Analysis

2023-01-22

R Markdown Tweet Analysis

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

```
twitter = read.csv("EvanWoods-timeline-2023-01-22-part1.csv")
```

Total Replies Sent:

```
total_replies_sent = sum(twitter$Tweet.Type=="Reply")
total_replies_sent
```

```
## [1] 1098
```

Total Likes of Replies

```
total_likes_of_replies_sent = sum(twitter$Total.Likes[twitter$Tweet.Type=="Reply"])
total_likes_of_replies_sent
```

```
## [1] 367
```

Historical Likes

```
likes = twitter$Total.Likes[twitter$Tweet.Type=="Reply"]
```

Replies Sent

```
time = twitter$Tweet.Posted.Time[twitter$Tweet.Type=="Reply"]
```

```
# Gathering Tweets Sent into a DataFrame
mydata <- data.frame(time = time, likes = likes)
mydata$time <- as.Date(mydata$time)
time_tmp <- unique(mydata$time)
mydata$time <- as.character(mydata$time)
result <- sapply(time_tmp, function(x){
  tmp <- mydata[mydata$time ==x,]
  return(sum(tmp$likes))
})
mynewdata <- data.frame(time = time_tmp, likes = result)
mynewdata$time <- as.Date(mynewdata$time)
# Converting tweets sent into a dataframe to display on graph

table_time_df = data.frame(table(time))
table_time_df$time <- as.Date(table_time_df$time)
```

```

time_tmp2 <- unique(table_time_df$time)
result2 <- sapply(time_tmp2, function(x){
  tmp <- table_time_df[table_time_df$time ==x,]
  return(sum(tmp$Freq))
})
tweets_sent_df <- data.frame(time = time_tmp2, tweets_sent = result2)
tweets_sent_df$time <- as.Date(tweets_sent_df$time)

# Plotting

plot(mynewdata$time, mynewdata$likes, col="red", type = "o", xlab="Date", ylab="Count",ylim=c(0,110),
     main = "Tweet Replies Sent to #depressed VS Tweet Replies Liked")

lines(tweets_sent_df$time, tweets_sent_df$tweets_sent, col="blue", type = "o",
     main = "Tweet Replies Sent")
legend("topleft", legend = c("Tweets Replied", "Tweets Liked"), fill = c("blue", "red"))

```

Tweet Replies Sent to #depressed VS Tweet Replies Liked

