## 622 GROUP PROJECT 3

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```
# Tidyverse and text analysis tools
library(tidyverse)
library(tidytext)

# For decision trees
library(rpart)
library(rpart.plot)
library(rattle)

# For nearest neighbors
library(class)

# For ML evaluation
library(caret)
```

First, we brought in the data file after handcoded sentiment has been conducted.

```
library(readr)
```

## Warning: package 'readr' was built under R version 4.2.2

```
datasubset <- read_csv("hw3datasubset.csv")</pre>
```

## #View(hw3datasubset)

#REMOVING NEUTRAL SENTIMENT FROM HANDCODED SENTIMENT Then, we removed the observations with a "neutral" hand-coded sentiment from the data set considering that this information is not useful for the purpose of this report.

```
data<-datasubset[datasubset$Handcoded_Sentiment!="Neutral",]
View(data)</pre>
```

#CLEANING HANDCODED SENTIMENT We decided to clean the hand-coded sentiment column in order to make sure our results are as optimal and accurate as possible by removing human error.

```
data$Handcoded_Sentiment <- replace(data$Handcoded_Sentiment, data$Handcoded_Sentiment == "Posotive", "Posoti
```