

Sentimental Analysis of Mme Bovary blog comments

ARIANA AYAVIRI

Madame Bovary" is a novel written by the French author Gustave Flaubert. The novel was first published in 1857 and is considered one of the greatest works of literature. The full title of the novel is "Madame Bovary: Mœurs de province" (Madame Bovary: Provincial Customs). The story is set in provincial France in the 19th century and follows the life of Emma Bovary, a young woman who marries a country doctor named Charles Bovary.

WE WILL ANALYSE REVIEWS FROM THE WEBSITE:

HTTPS://WWW.BABELIO.COM/LIVRES/FLAUBERT-MADAME-BOVARY/894329/CRITIQUES

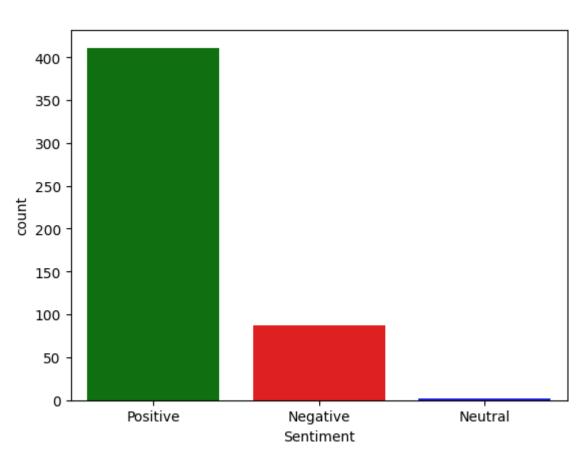
Blobber sentiment Classification analysis

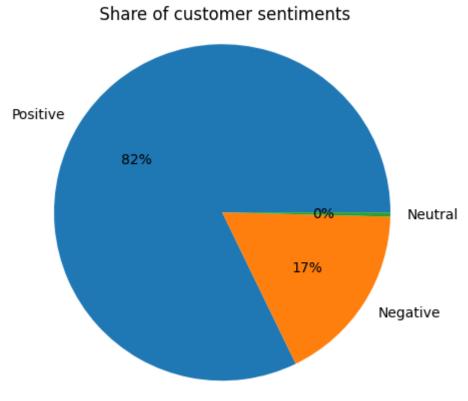
```
# Sentiment analyser library
tb = Blobber(pos_tagger=PatternTagger(), analyzer=PatternAnalyzer())

# Sentiment score
sentiment_score_polarity = []
for text in df["Clean_reviews_keywords"]:
    vs = tb(text).sentiment[0]
    sentiment_score_polarity.append(vs)

df['Sentiment_score'] = sentiment_score_polarity
df.head()
```

Negative, positive and neutral reviews from Mme Bovary

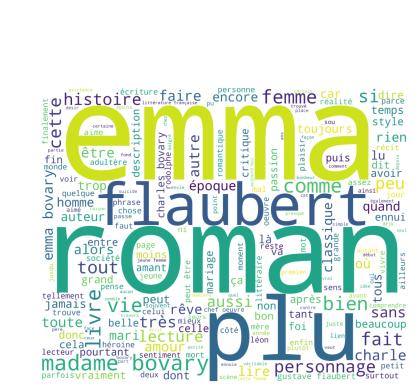


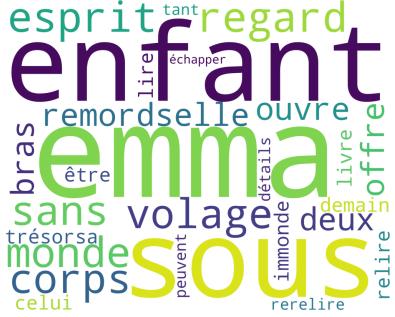


Positive words

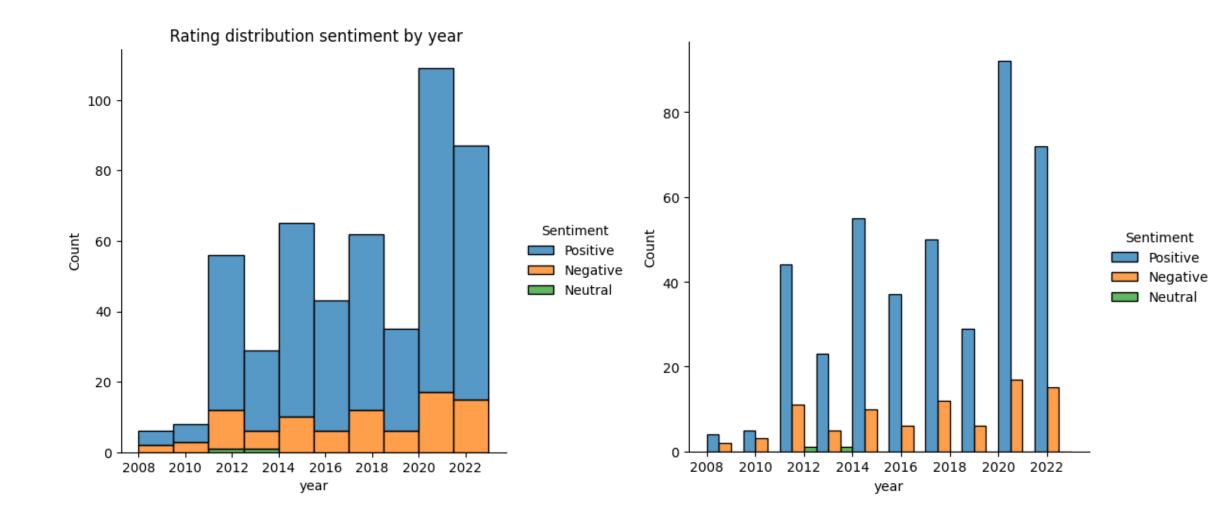
Neutral words

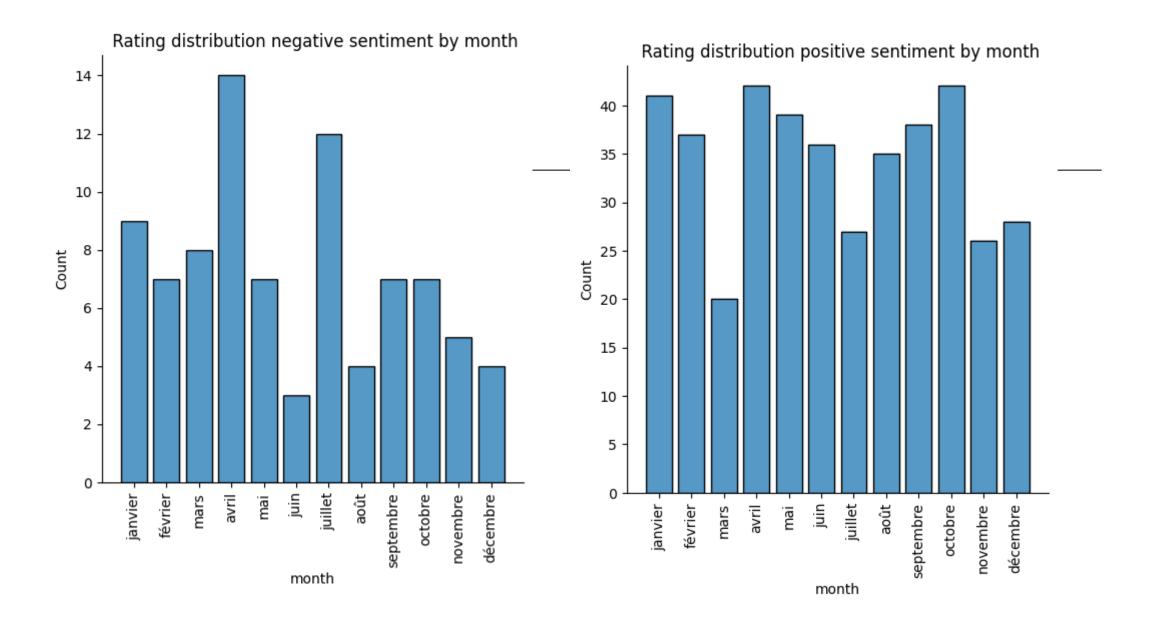
Negative words

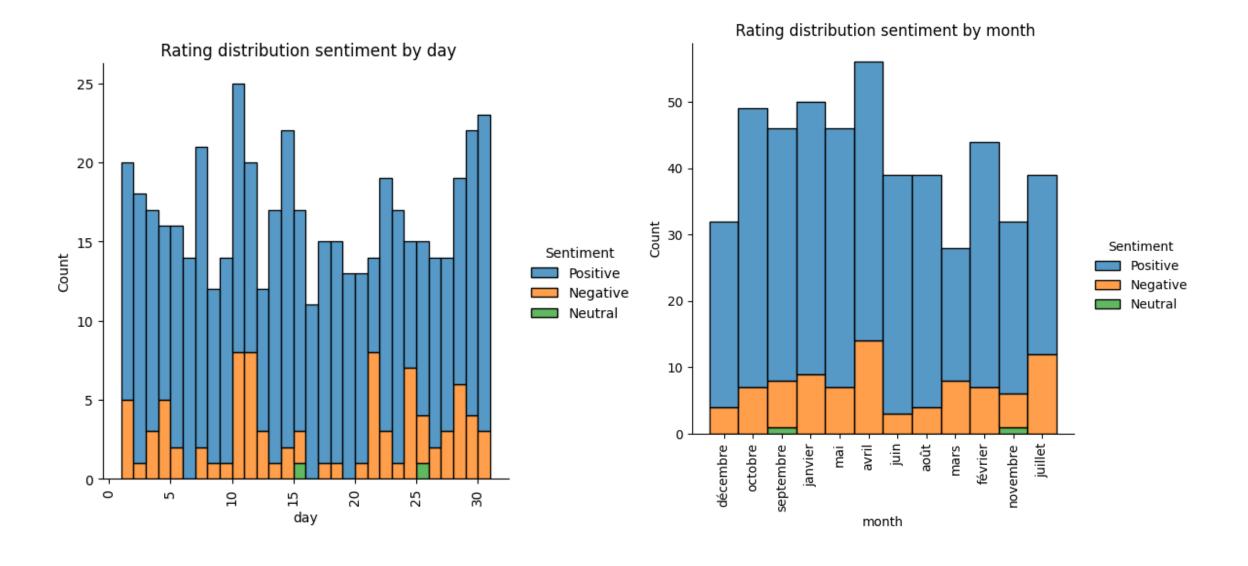


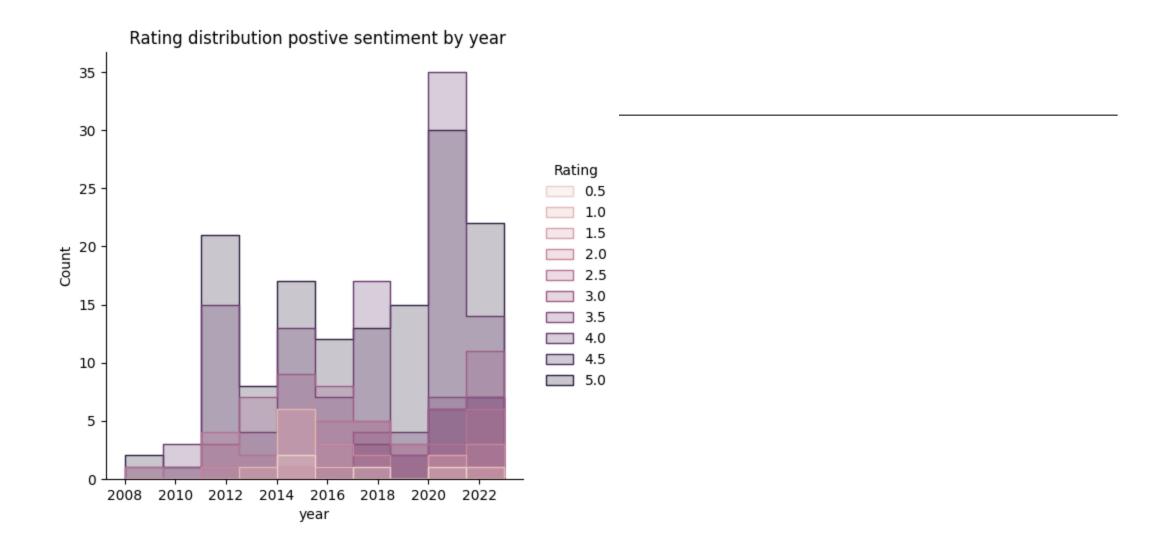


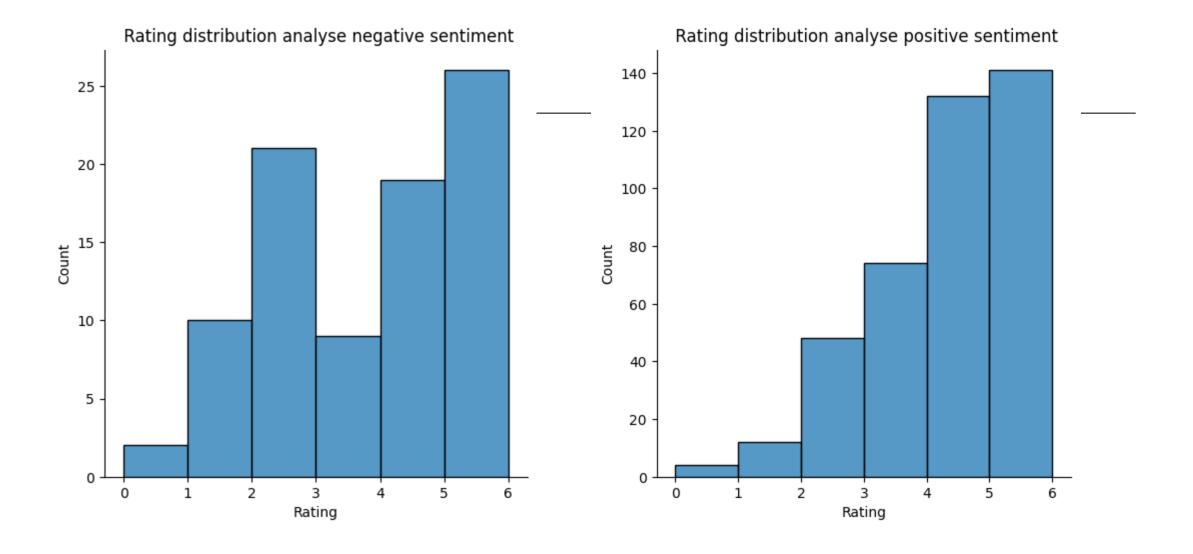




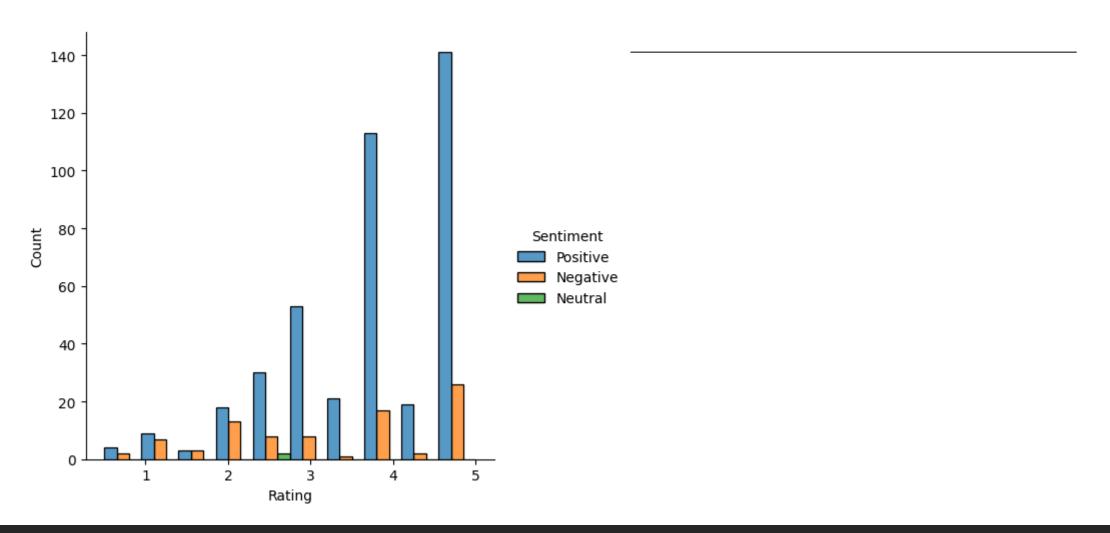






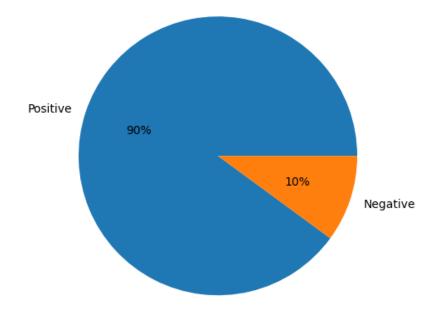


Rating by sentiment

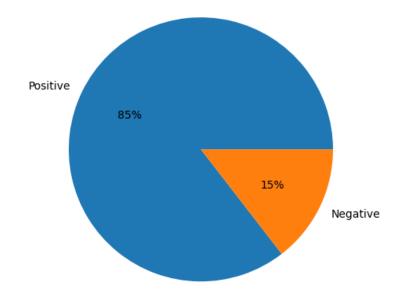


Cathegorize with key words the comments

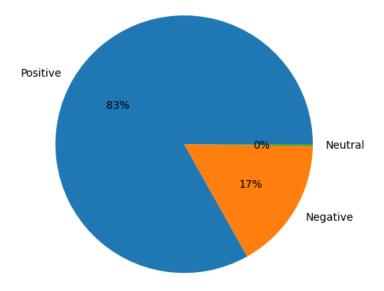




Sentiments in the comments that talk about the autor

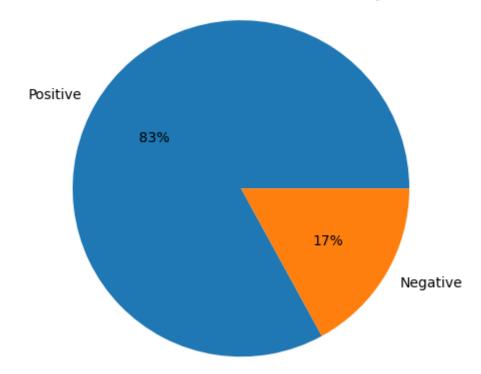


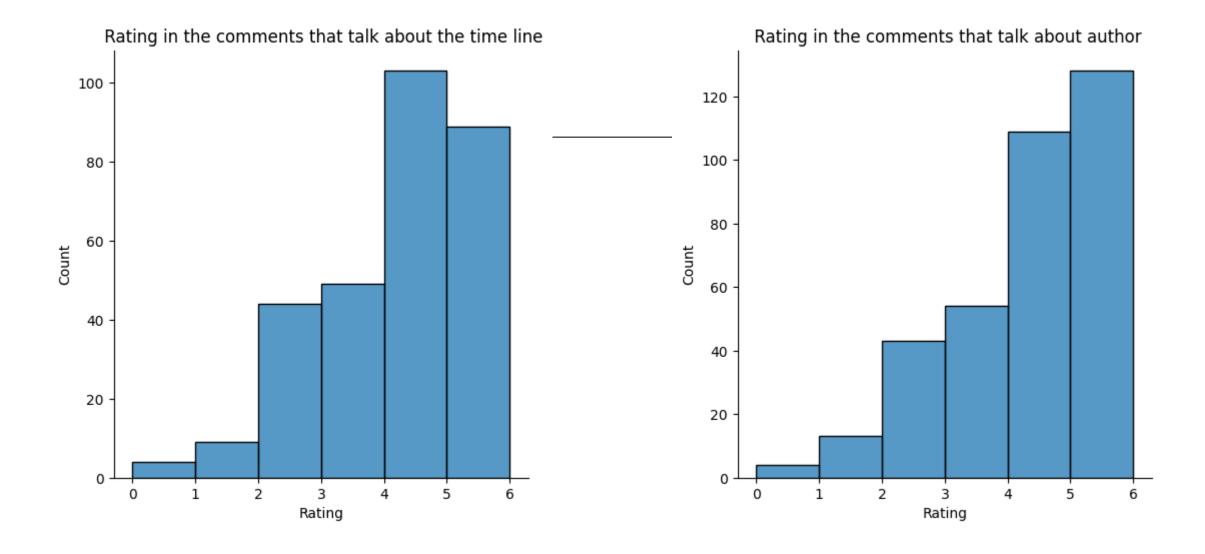
Sentiments in the comments that talk about characters

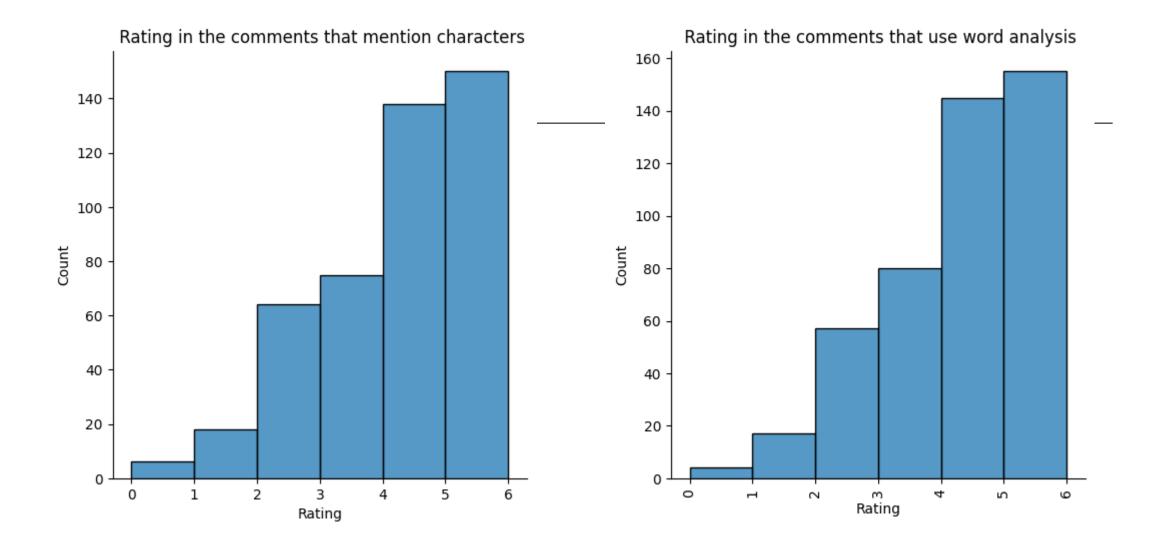


We create a cathegory that makes more Depth análisis with some commun adejctives

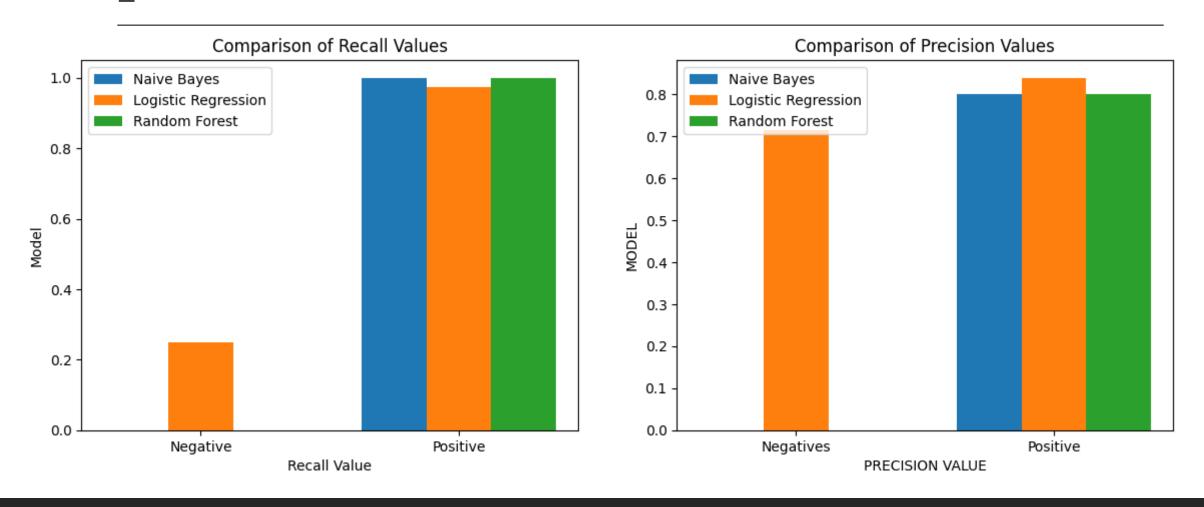
Sentiments in the comments that use analysis words

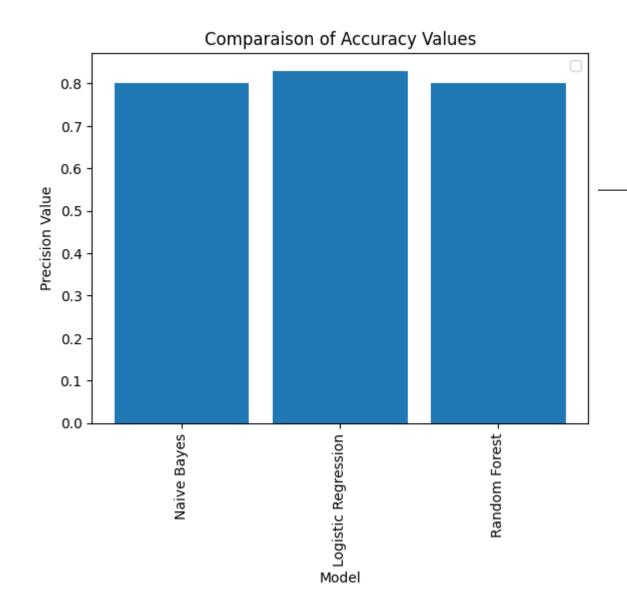






We use Machine Learning to predict sentiment





Performing accuracy with LSTM model

```
model = Sequential()
model.add(Embedding(input_dim=num_words, output_dim=embedding_dim, input_length=max_length))
model.add(SpatialDropout1D(0.2))
model.add(LSTM(lstm_units))
model.add(Dense(1, activation='sigmoid'))
```