

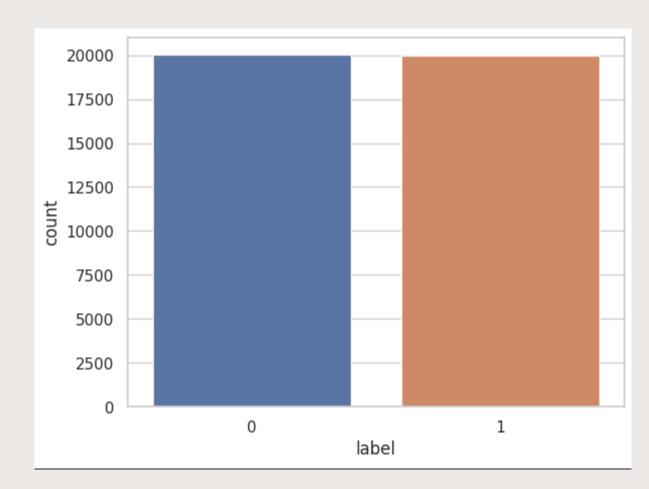
# IMDB MOVIE RATINGS SENTIMENT ANALYSIS

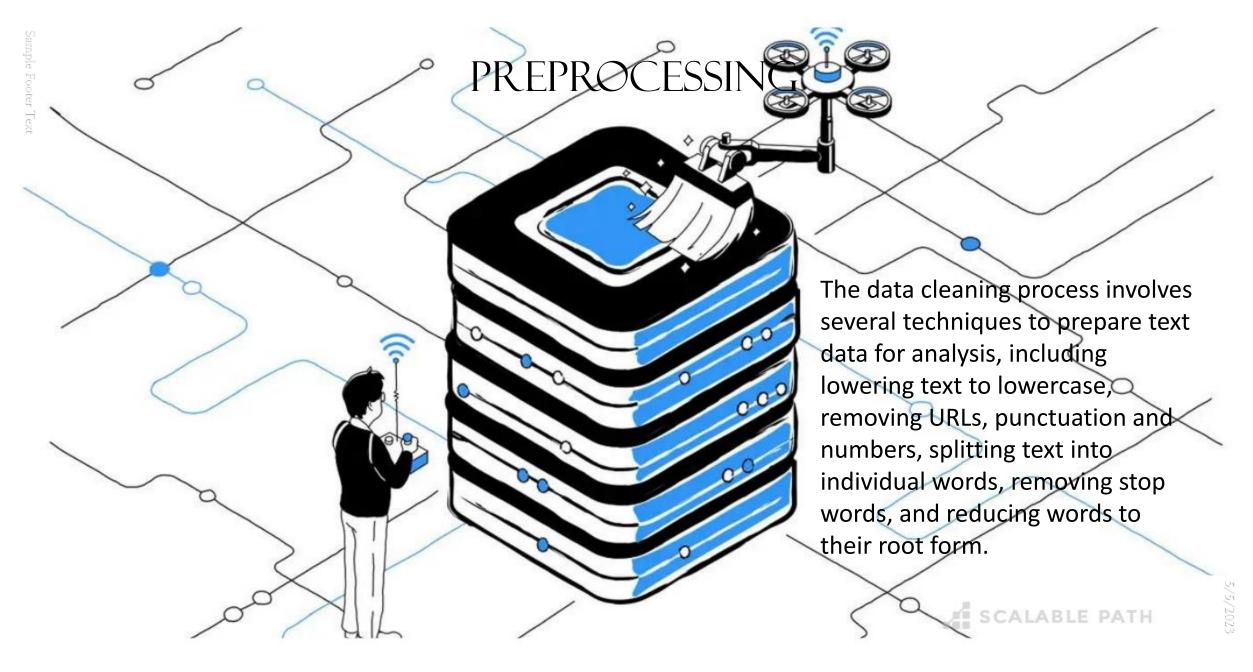
### **OVERVIEW**

- Building a machine learning algorithm to predict whether the given review is positive or negative.
- My approach was to try three different model son the dataset and compare the results based on the metrics of F1 score, accuracy, etc.

## DATA

- CSV file which included 50,000 data points.
- Features of the CSV file include:
  - Text
  - Label
- The datapoints were equally distributed and balanced.



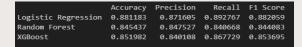


### TRAINING

- The data points were split into 80-20 split for better training of the model and testing it upon the remaining data points.
- Three models were chosen to be worked upon for this sentiment analysis.
  - Logistic Regression Classifier
  - RandomForestClassifier
  - XGBoost.

# PERFORMANCE

- Comparing the performance of each of the models used.
- Logistic Regression Classifier was the best out of all the three models used.
  - With the highest accuracy, precision, recall and f1 score.



### CONCLUSION

• As we can see the Logistic Regression
Classifier was best in predicting the sentiments of the given dataset, it can be best used for the use of movie rating sentiment prediction.

