# Twitter Sentiment Analysis

# OBJECTIVE

**The aim is to analyse  people's sentiments and derive the feelings behind the posts they shared.**

# METHODOLOGY

1) Data collection
2) Data Preprocessing
3) Feature Selection
4) Model Selection
5) Model Evaluation

1.

# DATA COLLECTION

Data collection is the first phase for analysis.  We have chosen tweepy as an API for extraction of tweets. To access tweets on twitter using API first we need to authenticate the console from which we are trying to access twitter.

2.

# DATA PREPROCESSING

The pre-processing of data implies the processing of raw data into a more convenient format which could be fed to a classifier in order to better the accuracy of the classifier.

3.

# FEATURE SELECTION

Different features that can be used  for the classification of tweets include- Unigram, Bigram, N-gram, POS tagging, Subjective, objective features and so on.

4.

# MODEL SELECTION

Once the data is being pre-processed, this data is to be fed to a classification model for further processing. There are different classification algorithms on which these models are built on. We have chosen k-nearest neighbour model to perform the classification.

5.

# MODEL EVALUATION

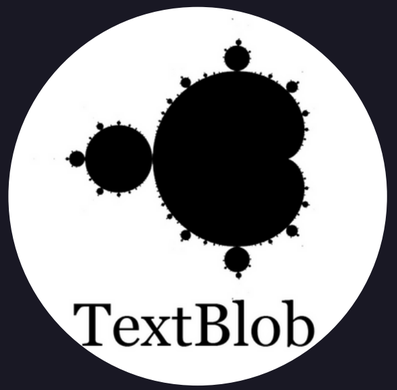
One of the most common and appropriate technique used for evaluation of a classifier is through confusion matrix.

# TOOLS USED

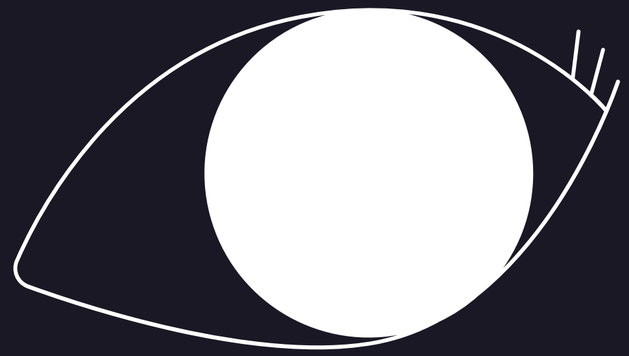
Google Colab


Word Cloud

Tweepy




TextBlob



# PROJECT PROGRESS

# REFERENCES


01 https://ijisrt.com

02 https://everythingcomputerscience.com

03 https://arxiv.org

04 https://www.researchgate.net

# THANK YOU