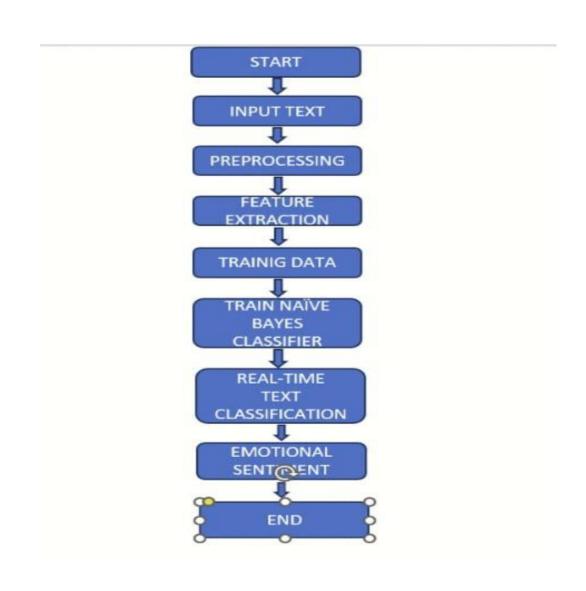
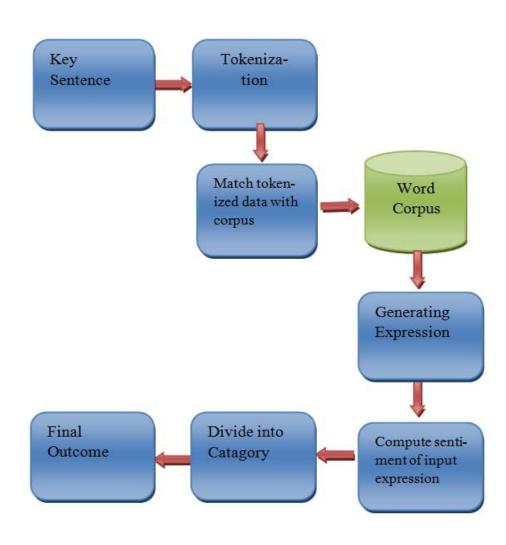
Real- Time Sentiment Analysis with Naïve Bayes: Emotion Detector

Flow Chart



Architecture Diagram



Coding

```
In [1]: H # Import Libraries
            import pandas as pd
            # Cleaning the Text by Neattext Pa
            import neattext.functions as nt
            # split the data
            from sklearn.model selection import train test split
            # Use Machine Learning Model
            from sklearn.naive_bayes import MultinomialNB
            from sklearn.feature extraction.text import CountVectorizer
            from sklearn.metrics import accuracy score, classification report, confusion matrix
            # Build Pipeline
            from sklearn.pipeline import Pipeline
In [2]: # Read Dataset
            df=pd.read csv("emotion.csv")
In [3]: M df["Clean_text"]=df["Text"].apply(nt.remove_userhandles) # To Remove Userhandles (#) Sign.
            df["Clean_text"]=df["Clean_text"].apply(nt.remove_stopwords) # To Remove Stopwords
In [4]: # Features & Labels
           x = df['Clean text']
           y = df['Emotion']
In [5]: # Split Data
            x train,x test,y train,y test = train test split(x,y,test size=0.3,random state=3)
In [6]: H # build the model
            model = Pipeline(steps=[('cv',CountVectorizer()),('lr',MultinomialNB())])
            # Train and Fit Data
            model.fit(x train,y train)
            Prediction = model.predict(x test)
In [7]: # Check Accuracy
            print('Accuracy score:', model.score(x_test,y_test))
```

Output

Accuracy score: 0.5721402567541675