**Textual Sentiment Analysis:**

The different advances engaged with the AI Pipeline are:

• Bringing in the essential conditions (numpy, pandas, seaborn, sklearn, and so forth.)

• Perusing and stacking the dataset

• Exploratory Information examination

• Information pre-handling

• Dividing information into preparing and testing subsets

• Utilizing TF-IDF vectorizer

• Model assessment for working

• Model structure

The thought behind picking these models is that we need to give every one of the classifiers a shot the dataset going from straightforward ones to complex models and afterward attempt to figure out the one which gives the best exhibition among them.

Dataset:

For dataset, the link is given below,

<https://www.kaggle.com/datasets/kazanova/sentiment140>

The dataset comprises of the 6 fields-

* Target: polarity of the tweet
* IDs: the id the tweet
* Date: the date of the tweet
* Flag: the query. If there is no query, then the value is NO\_query
* User: the user that tweeted
* Text: the text of the tweet

After all these things:

Change **the import** mentioned in the code to your **latest directory location**.

Then start running the code in small segments with the help of google colab in order to see the results and progress step by step. Otherwise, run the whole code segment in one go.

**File name:**

textual\_sentiment\_analysis.py