**PROJECT TOPIC: Twitter Sentimental Analysis**

**Group No.:** 138

**Project Group Members:**

1. Aman Singh (C-7/171500037)
2. Ayush Gupta (B-14/171500071)

**Project Supervisor:** Mr. Juginder Pal Singh, Asstt. Professor

**Objective:** In this project we are trying to show the basic way of classifying tweets into positive or negative category using Naive Bayes as baseline and how language models are related to the Naive Bayes and can produce better results.

**Tools required:**

* **Software Requirements:**
* Python
* Numpy
* Pandas
* Jupyter
* Anaconda Navigator
* **Hardware Requirements:**
* i3 Processor
* 500 GB Hard Disk
* 8 GB RAM

**Abstract:** This project addresses the problem of sentiment analysis in twitter; that is classifying tweets according to the sentiment expressed in them: positive, negative or neutral. Twitter is an online micro-blogging and social-networking platform which allows users to write short status updates of maximum length 140 characters. It is a rapidly expanding service with over 200 million registered users out of which 100 million are active users and half of them log on twitter on a daily basis - generating nearly 250 million tweets per day. Due to this large amount of usage we hope to achieve a reflection of public sentiment by analysing the sentiments expressed in the tweets. Analysing the public sentiment is important for many applications such as firms trying to find out the response of their products in the market, predicting political elections and predicting socioeconomic phenomena like stock exchange. The aim of this project is to develop a functional classifier for accurate and automatic sentiment classification of an unknown tweet stream.

**Outcome:** After applying all three algorithms we are getting the accuracy of 79.95%.

