**TASK 3 REPORTING**

**DATE: 04/05/2022**

**TASK NAME:** NLP - SENTIMENT ANALYSIS

**TASK LEADER:** BHARATI PANIGRAHI

**TASK CO-LEADER:** SHREYA SHETYE

**TASK WEEKLY MEETING TIME:** WEDNESDAY 9:00 pm

**COMPLETED TASK:**

1. Created a basic framework for sentiment analysis using sklearn for classification and a movie review dataset as a dummy dataset.
   * <https://colab.research.google.com/drive/1Gw8gYLI7G8wnPdesRguDZ8HS9LTvW9hi>

**IN-PROGRESS:**

1. Looking for a proper dataset of FAQs or tweets to perform Sentiment Analysis which has information about:
   * How do people feel while interacting with a bot about certain topics like finances, operations, admits, etc, or something similar
   * Responses to the chatbot Or sentiments of the acknowledgments by the patient
2. Perform Sentiment analysis using
   * VADER (Valence Aware Dictionary and sentiment Reasoner) - Bag of words approach
   * Roberta Pretrained Model from Hugging Face
   * Huggingface Pipeline

**FUTURE SCOPE:**

1. Include a column in the dataset that shows a hit count of how frequently the chatbot has provided a specific piece of information as it will be helpful to justify why we chose specific diseases for our dataset from the administration perspective.
2. Include sentiment analysis in the chatbot for answering queries of the patients based on the sentiment of the previous comment/question