### **Team: Chirp**

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### **Project Name: Public opinion and sentiment analysis on the COVID-19 vaccine using Twitter data**

The objective of this project is to collect tweets relating to the COVID-19 vaccine either from Twitter or from another data source and analyze the data to gain a deeper understanding of the data. Ultimately, the goal is to analyze public sentiments and opinions regarding COVID-19 vaccine by applying different approaches and understanding the important features of this data.

Following table is the high level requirements of our project:

| **Requirements:** | **Details:** |
| --- | --- |
| 1. Gain insights from exploratory analysis of data sources | To meet this requirement, we have to collect the data, perform all the preprocessing steps, and then visualize the data using different plots to fully understand it. |
| 1. Get feature engineered attributes from data | To fulfill this requirement, we need to develop a feature engineering process and output will have important attributes after applying feature engineering techniques |
| 1. Identify attributes that effects on public opinion and sentiment about COVID-19 vaccine | In order to fulfill this requirement, we need to identify the attributes/features from the data that have the greatest impact on public opinion and sentiment about the COVID-19 vaccine |
| 1. Finally, do sentiment analysis from different aspects on COVID-19 vaccine twitter data | In order to satisfy this requirement, we must use sentiment computation techniques and compute sentiments using twitter data about the COVID-19 vaccine |
| 5. Prepare project report | To complete this requirement, we have to write a project report with all the details and diagrams. |