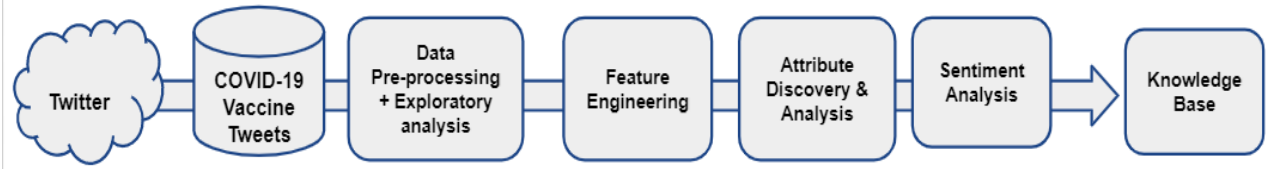
Team: Chirps

Team Members: Ashika Anand Babu, Subarna Chowdhury Soma, Vishnu Vardhan Reddy Yeruva

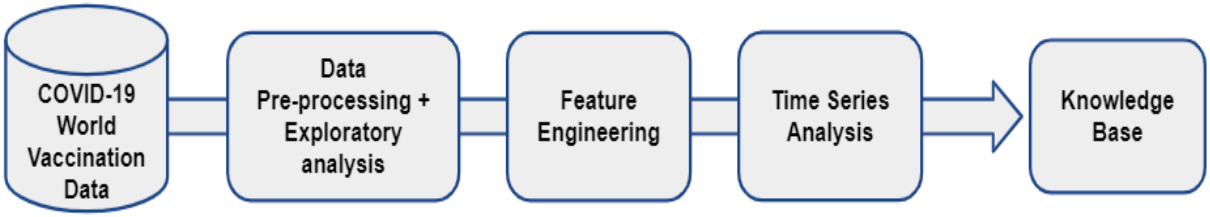
Project Name: Public opinion and sentiment analysis on the COVID-19 vaccine using Twitter data

High Level Architecture Design

Architecture 1:



Architecture 2:



Data Flow Diagram

Diagram 1:

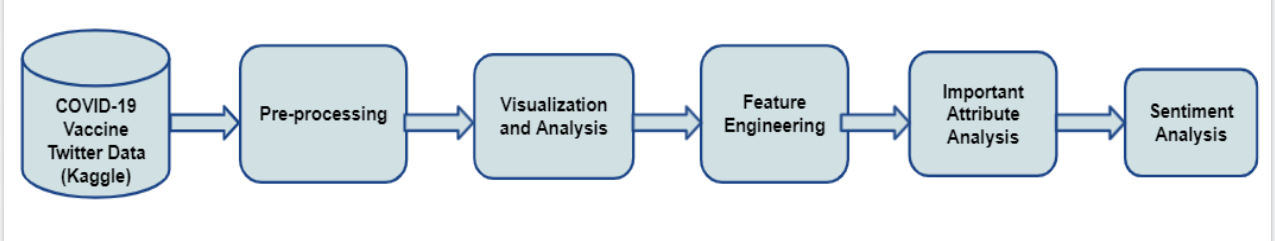
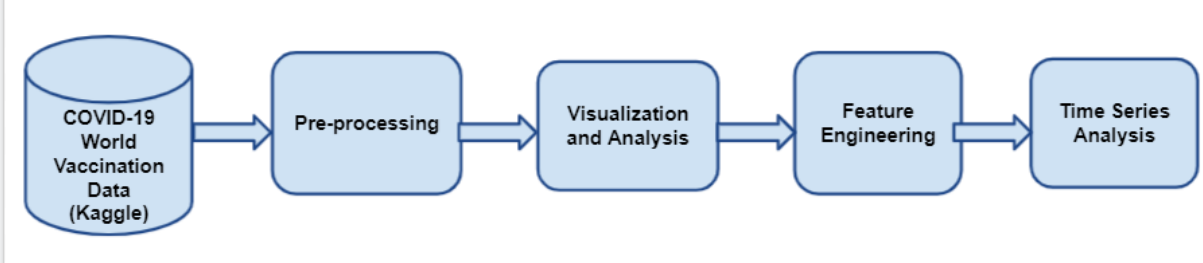
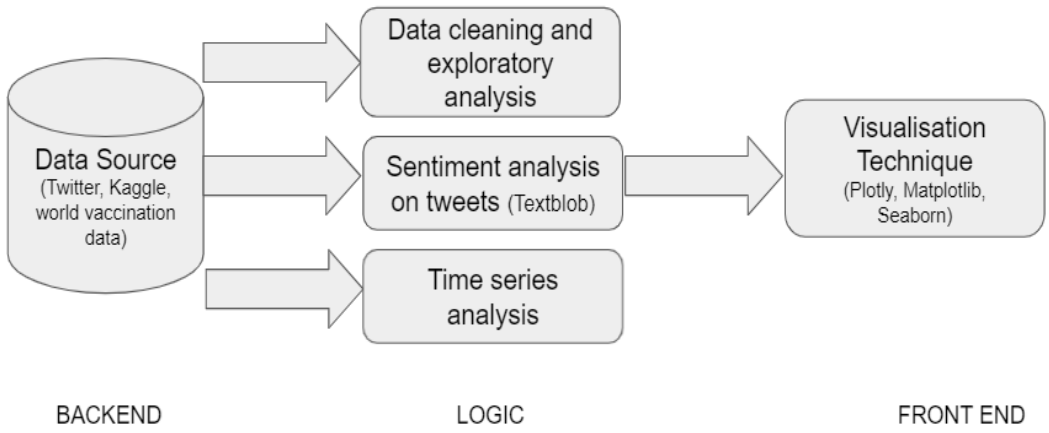


Diagram 2:



Component Level Design



Following are the components for our system:

Backend

1. Data sources
    a. kaggle dataset: gpreda/all-covid19-vaccines-tweets
    b. World Vaccination Data:

Logic

1. Data cleaning + Exploratory analysis to find important features
2. Sentiment Analysis, Word Cloud Visualisation - what are words associated with positive, negative
3. Time series analysis

Front end

1. Plotly
2. Matplotlib
3. Seaborn