Hello everyone . We are from team IOCRAZON . Myself …………….. and my team member name is …………………..We are pursuing B.tech ece from AIACTR college Delhi. I am recording this video to explain our idea of description on the IBMHC 2020 problem statement titled “**Sentiment Analysis of COVID-19 Tweets – Visualization Dashboard “.**

Let me elaborate the problem briefly. The problem required to build a sentiment analyzer that will analyze the sentiments of Indians after the extension of lockdown announcements to be analyzed with the relevant #tags on twitter and build a predictive analytics model to understand the behavior of people if the lockdown is further extended.  
Also it required to develop a dashboard with visualization of people reaction to the govt announcements on lockdown extension.

During such pandemic outbreaks like covid -19 , understanding the emotional state of citizens of a country could be of interest to various organizations to carry out tasks and to take necessary measures. Twitter and other social media platforms have been bridging the gap between the citizens and government in various countries and are of more prominence in India.

The aim of our project is to:

1.(First) Get to know people’s sentiment towards the epidemic

2. (secondly) To Understand the sentiments of people on govt. decision to extend the lockdown

For its solution we have developed a live dashboard of streamed twitter tweets, filtered by your own key words with applying sentiment analysis of tweets. Sentiment analysis is for classifying on positve and negative tweets. Store them in local database, and then creates a dashbord with live charts.

Talking about Technological Stack in **Frontend**: We have Created A simple user friendly webpage will be created by using dash plotly and python for convenience of the user. Keywords of sentiment analysis are COVID19 , CORONA and LOCKDOWN all are  predefined by the backend side.

We are using herokuapp for the deployment of the script.

**In theBackend:** The Python algorithms fetch tweets related to COVID19 for this we use twitter API configuration .Now after fetching, Tokenization, filtration/Cleaning, removing stop words and Classification of tweets proceeded by using the python algorithm which is applied at the backend and then it generates the output sentiments with the help of three variables positive, negative and neutral then return these values to the webpage.

For visualization Pie Chart and Historical scatter moving average chart. With dynamic historical window size will be generated on the webpage according to the received data .

The **Technologies & Tools** used by us are Python 3.6,pandas, threading, sqlite3, textblob, tweepy, plotly, dash, dash-html-components, dash-core-components IBM Watson Studio, Herokuapp  Deployment,  Any Web frameworks.

We have also added a option titled “The Ultimate Guide To Covid-19 “ where on clicking you can find a All in one dashboard. This website is also developed by we two where you can finds everything related to covid-19 . As you can the options : ………………………………….

In this site development for the chatbot we used IBM Cloud services like: IBM Discovery service , Cloud Function, Watson Assistance and NODE-RED Platform.

SO this is Our Project which will help to analyse and monitor the public reaction during any particular case period. Our website is user friendly easy to handle and has Well Planned Information Architecture that will provide a detailed overall responses of the people towards the defined topics. If I talked about its future scope we can add options like to perform sentiment analysis on any other topics just by typing the keyword of it. Also more effective types of dashboard visualization can be plotted. Also it’s essential to identify fake tweets as well to stop the spreading of false information among people.

Lastly , I would like to thanks all our smartbridge mentors for their great help and support .

Thanks for watching the video.