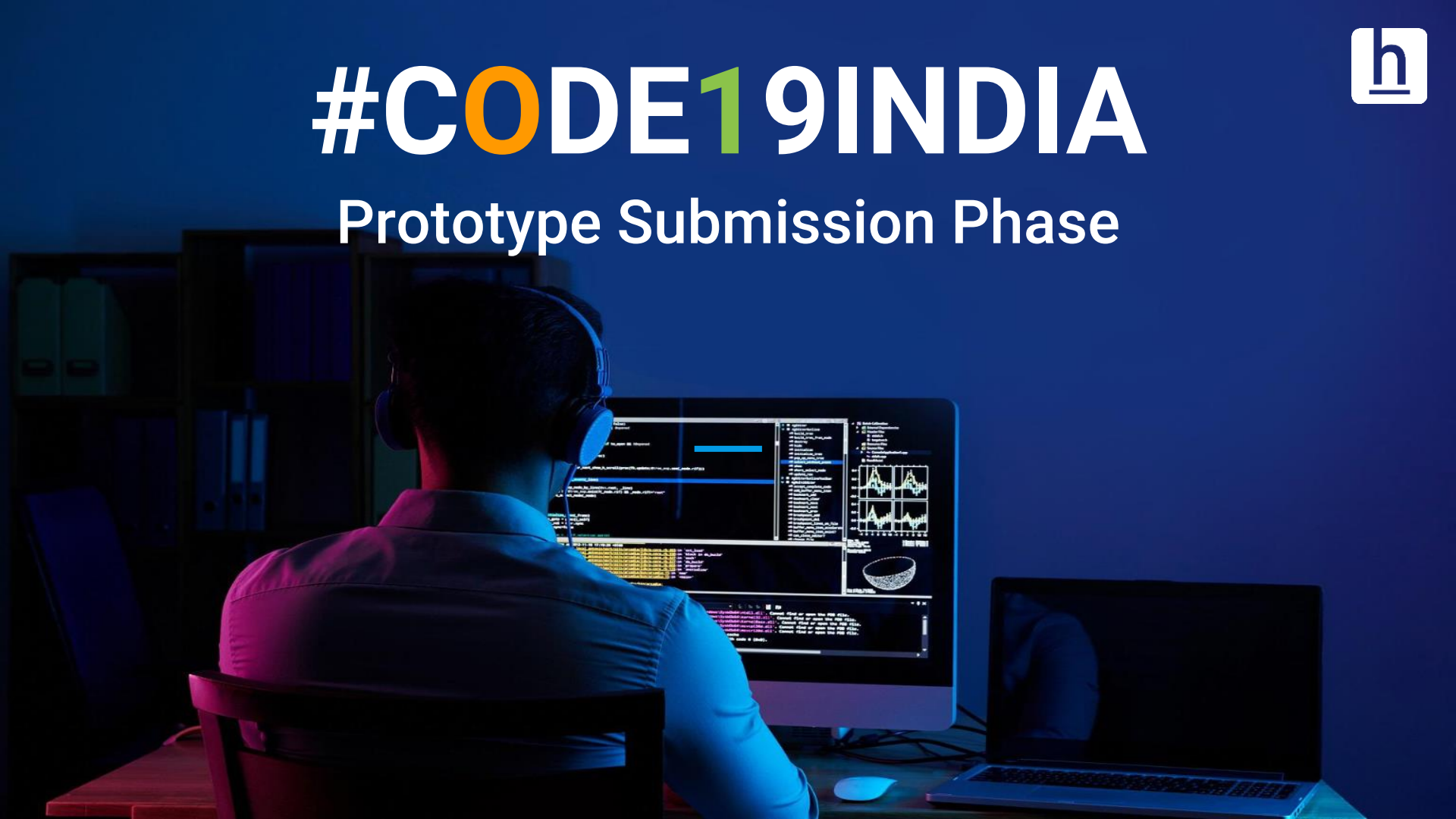
#CODE19INDIA

Prototype Submission Phase



TEAM NAME and MEMBER DETAILS

TEAM NAME : HOUSTON

Vikash Garg
Abhinav Anand
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THEME: *Screening ,Testing & Monitoring-Devices & IT/Digital/Data Solutions*

PROBLEM STATEMENT

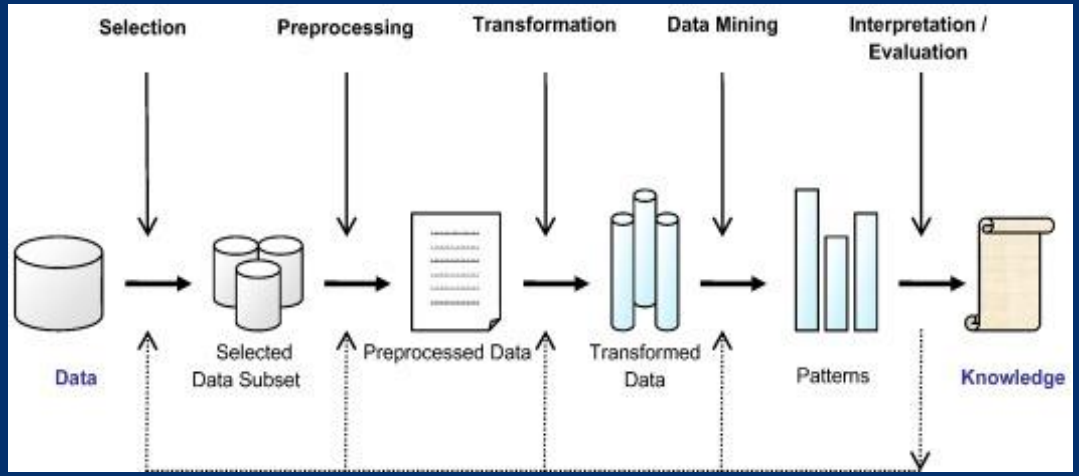
Since COVID -19 is spreading at very faster rate, Hence to get to know the effected person is very tricky job, specially when it comes to testing the thousands of unknown people with some symptoms results us in waste of time ,money and resource, Hence we can use predictive data mining and machine learning by using some **predefined algorithms and predefined Data set** to predict the specific person with specific symptom by using predictor analysis, Hence we can filter the most symptom resembled person to go for final test

SOLUTION

- The prediction of COVID-19 at earlier stage becomes important task. But the accurate prediction on the basis of symptoms becomes too difficult for doctor. The correct prediction of COVID-19 is the most challenging task.
- To overcome this problem **Data Mining** plays an important role to predict the COVID-19. Due to increase amount of data growth in medical and healthcare field the accurate analysis on medical data which has been benefits from early patient care.
- With the help of COVID-19 data, data mining finds hidden pattern information in the huge amount of medical data. We proposed general COVID-19 prediction based on symptoms of the patient.
- For the COVID-19 prediction, **we use K-Nearest Neighbor (KNN) and Convolutional neural network (CNN) machine learning algorithm for accurate prediction of COVID-19. For COVID-19 prediction required COVID-19 symptoms dataset.**
- In this general COVID-19 prediction the living habits of person and checkup information consider for the accurate prediction.
- After general COVID-19 prediction, this system able to gives the risk associated with general disease which is lower risk of general disease or higher.

METHODOLOGY

- *Machine Learning*
- *Linear Regression Algorithm*
- *K-nearest neighbor (KNN)*
- *Convolution neutral network (CNN)*



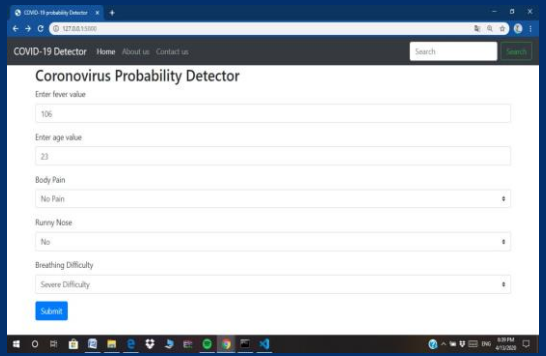
WORKING PROTOTYPE

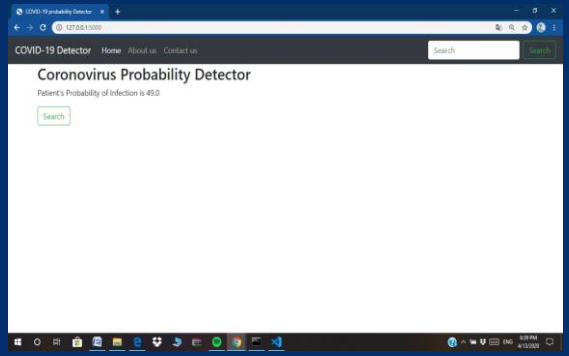
https://youtu.be/TswfM_Jwj1Q

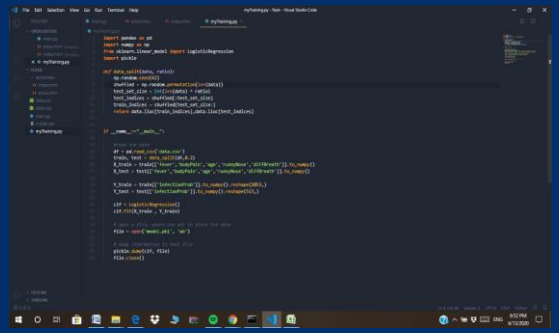
ATTACHMENTS

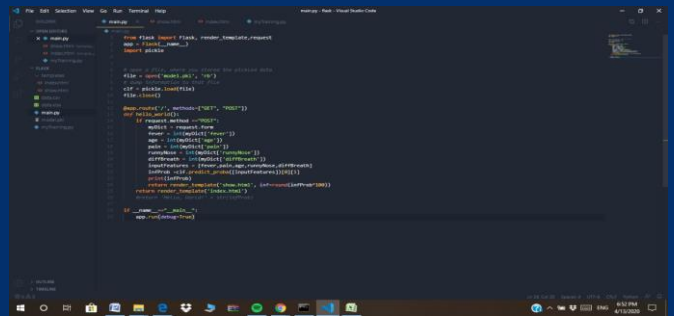
https://github.com/sarveshwaran1678/COVID19INDIA-HOUSTON

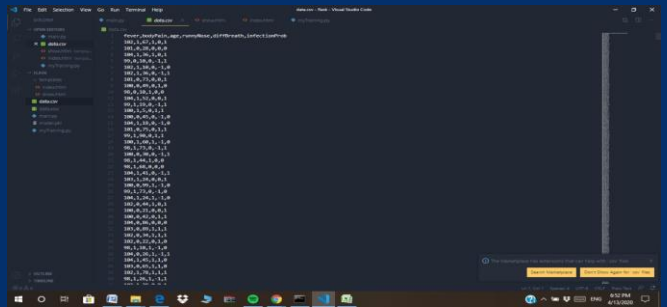
https://drive.google.com/open?id=19q31-3cPuphtYTY1tFCJzxJeVcEJWCf0











SOCIETAL IMPACT/ NOVELTY

Can make use of the medical tools effectively .

Reduces the workload by not checking each and every person.

FUTURE SCOPE

- *Addition of still more efficient algorithms for accessing the data faster*

THANK YOU

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