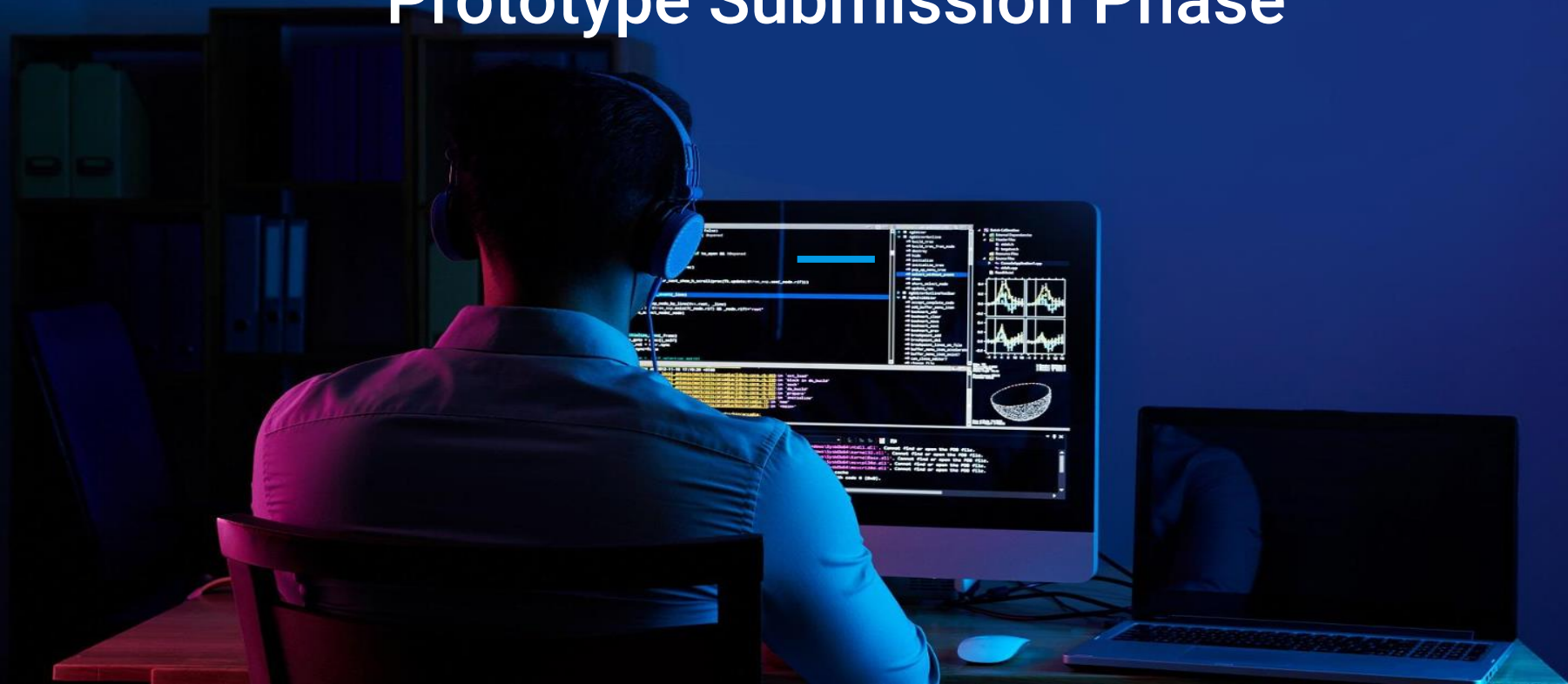




# #CODE19INDIA

## Prototype Submission Phase





# TEAM NAME and MEMBER DETAILS

*TEAM NAME : HOUSTON*

*Vikash Garg*

*Srikar K*

*Abhinav Anand*

*Taheera Tanveer*

*Sachin*

*Sarveshwaran*

*Varsha S*

**THEME:** *Screening ,Testing & Monitoring-Devices &  
IT/Digital/Data Solutions*

# PROBLEM STATEMENT

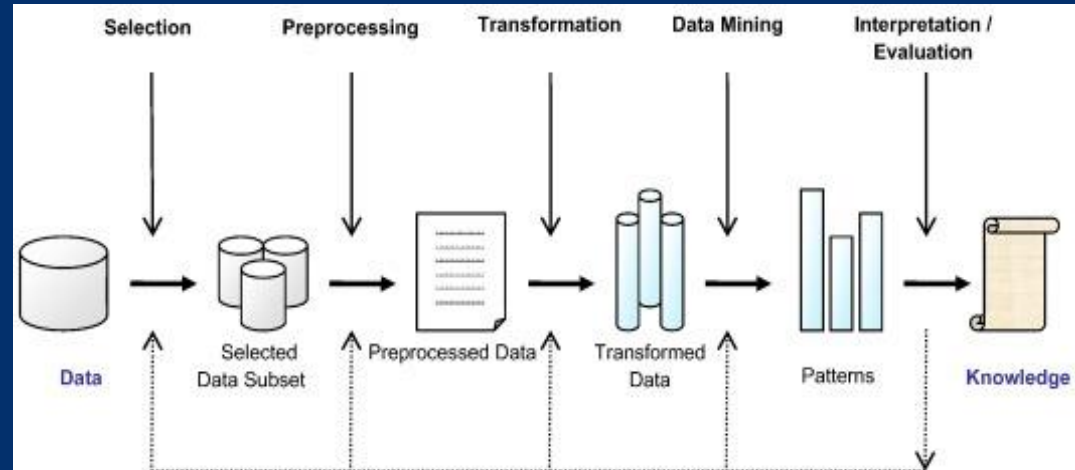
Since COVID -19 is spreading at very faster rate, Hence to get to know the effected person is very tricky job, specially when it comes to testing the thousands of unknown people with some symptoms results us in waste of time ,money and resource, Hence we can use predictive data mining and machine learning 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 neural network (CNN)*





# WORKING PROTOTYPE

[https://youtu.be/TswfM\\_Jwj1Q](https://youtu.be/TswfM_Jwj1Q)



# ATTACHMENTS

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

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

COVID-19 Probability Detector

Enter fever value  
106

Enter age value  
23

Body Pain  
No Pain

Runny Nose  
No

Breathing Difficulty  
Severe Difficulty

COVID-19 Probability Detector

Patient's Probability of Infection is 40.0

```
const express = require('express');
const app = express();
const port = 3000;

app.get('/', (req, res) => {
  res.render('index');
});

app.post('/submit', (req, res) => {
  const { fever, age, pain, nose, breath } = req.body;
  // ... calculation logic ...
  res.render('result', { probability });
});

app.listen(port, () => {
  console.log(`Server is running on port ${port}`);
});
```

```
<!DOCTYPE html>
<html>
<head>
<title>COVID-19 Probability Detector</title>
</head>
<body>
<div>
<div>
COVID-19 Probability Detector
</div>
<div>
Enter fever value
<input type="text" value="106"/>
</div>
Enter age value
<input type="text" value="23"/>
</div>
<div>
Body Pain
<input type="text" value="No Pain"/>
</div>
<div>
Runny Nose
<input type="text" value="No"/>
</div>
<div>
Breathing Difficulty
<input type="text" value="Severe Difficulty"/>
</div>
<div>
<input type="button" value="Submit"/>
</div>
</div>
</body>
</html>
```

```
body {
  font-family: sans-serif;
  background-color: #f0f0f0;
}

h1 {
  color: #007bff;
}

input {
  width: 100%;
  padding: 5px;
}

input[type="button"] {
  background-color: #007bff;
  color: white;
  padding: 10px 20px;
  border: none;
}
```

## 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



#CODE19INDIA