

SYNOPSIS

COVID PROBABILITY ESTIMATOR



MAJOR PROJECT – 2 (15B19EC791)

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ABSTRACT:

Recently Corona Virus emerged as Global Pandemic and took up many lives and stopped the pace of the world for months. Using this COVID 19 Probability Estimator, a person can self test himself and know the probability of him or her being infected by corona virus. To test this a MACHINE LEARNING model is created with sample parameters. Whenever a person tests himself, his test results message would be sent to concerned authorities like hospitals or district administration. Based on the result, authority can take appropriate actions.

IDEA BEHIND PROJECT

- Idea is to stop the transmission by prioritizing tests and hence detecting the cases quickly.
- Data can be collected on symptoms of COVID 19.
- A Machine Learning model is then trained on the data to find out the probability of a person having the infection.
- Model is then used to find out whom to test for infection first.
- Same model can be used to find potential candidates for conducting random tests.

SOFTWARE USED:

- Python(Machine Learning Algorithm Random Forest Classifier)
- Website Frontend - HTML,CSS and JAVASCRIPT
- Website Backend - Flask and ML Model
- For Data Processing – Excel Sheet
- For messaging of test results to govt. authorities, Twilio API (Python) will be used.