COVID-19 TRACKER AND DETECTION

Objective

The idea of project to stop the spread of covid virus .In this project there is two module 1st one is for tracking and 2nd is used for detection .For using this idea we have to control the spread of corona virus by using tracking ,detection,testing and one day world is free from covid -19.

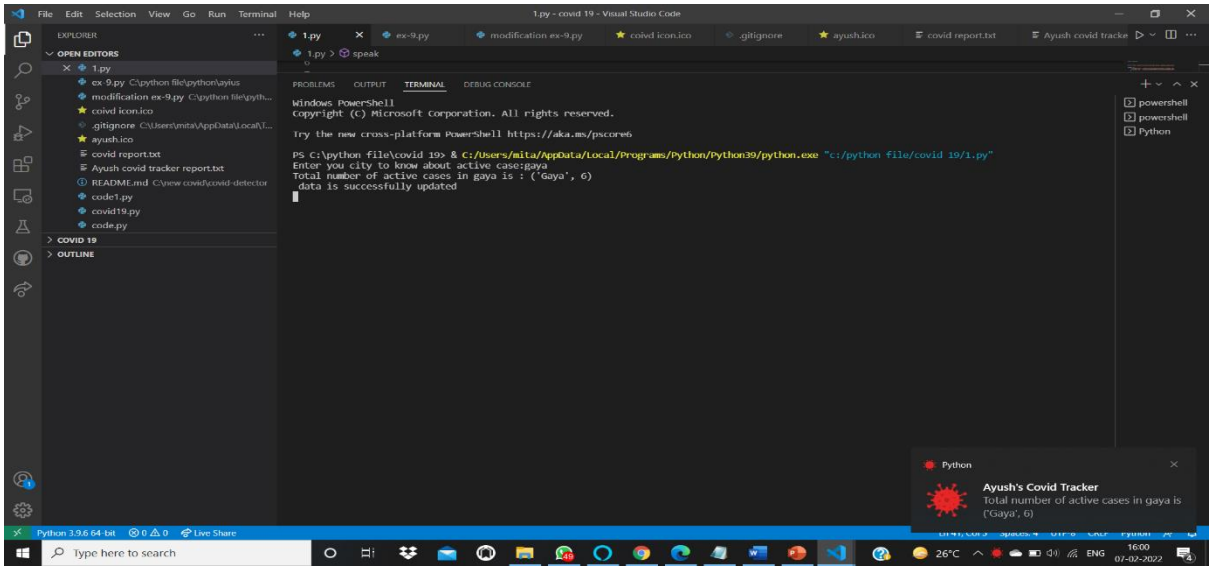
INTRODUCTION

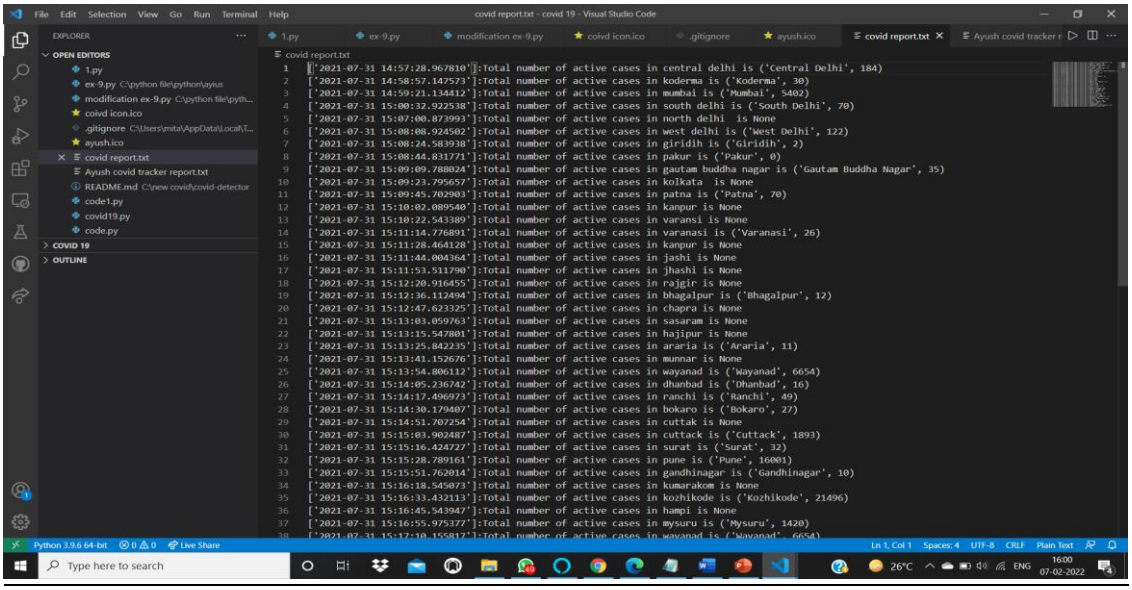
TRACKING MODULE:-Tracking module is fetching the live data of active cases in every district in state and save it in 'txt' file so we watch the numbers of active cases in per day in every district and predict the graph of increasing and decreasing slope .After analysis of graph we launched our second module .

DETECTION MODULE :- Detection module used to predict infection probability of person by analysis dataset record with help of ML algorithm logistics regression .In dataset different parameters is used such as Fever ,Oxygen level ,Running nose ,Age, Body pain, Difficulty in breathing .ML prediction deployed in website where user use parameters and check its infection probability if it is more than 50% then person go for testing .

METHODOLOGY

TRACKING MODULE :-API key is used for tracking the live data of active cases for district wise .Notification bar is also used for giving notification of cases while searching and cases record is saved in txt file with date and time .Tracking module is made with help of python module .Text to speech is also it is read active cases of searched district.





DETECTION MODULE:-IN detection it will predict the infection probability of person while using different ML parameter of data feature i.e symptoms of covid till now discovered .While entering the symptoms of person ml model used to predict the infection probability of person .This prediction is based on past data record of covid -19 infected person symptoms.

A team of doctors can sit down to find out the best model parameters.

A sample set of such parameters is as follows:

Features:

Average Fever - Continuous

Body Pain - 0/1 - Binary

Age - Discrete

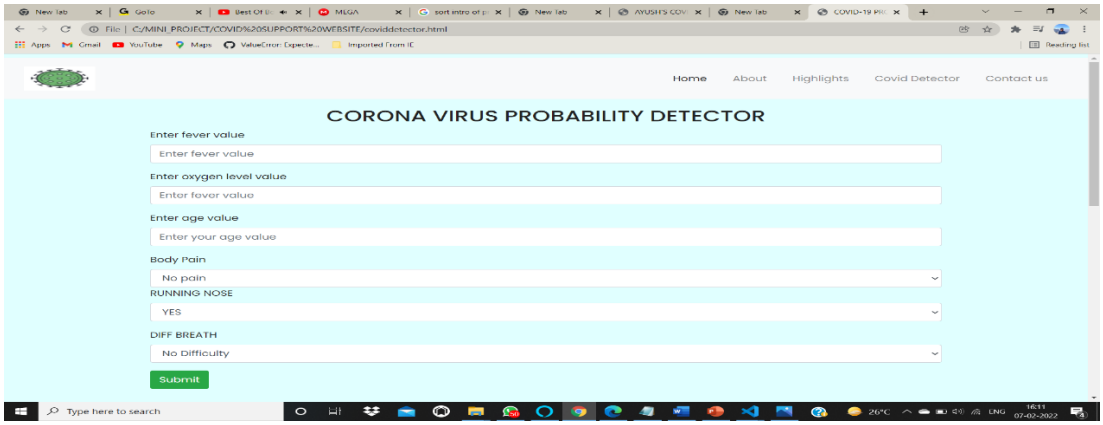
Runny Nose

Difficulty breathing - Categorical: -1/0/1

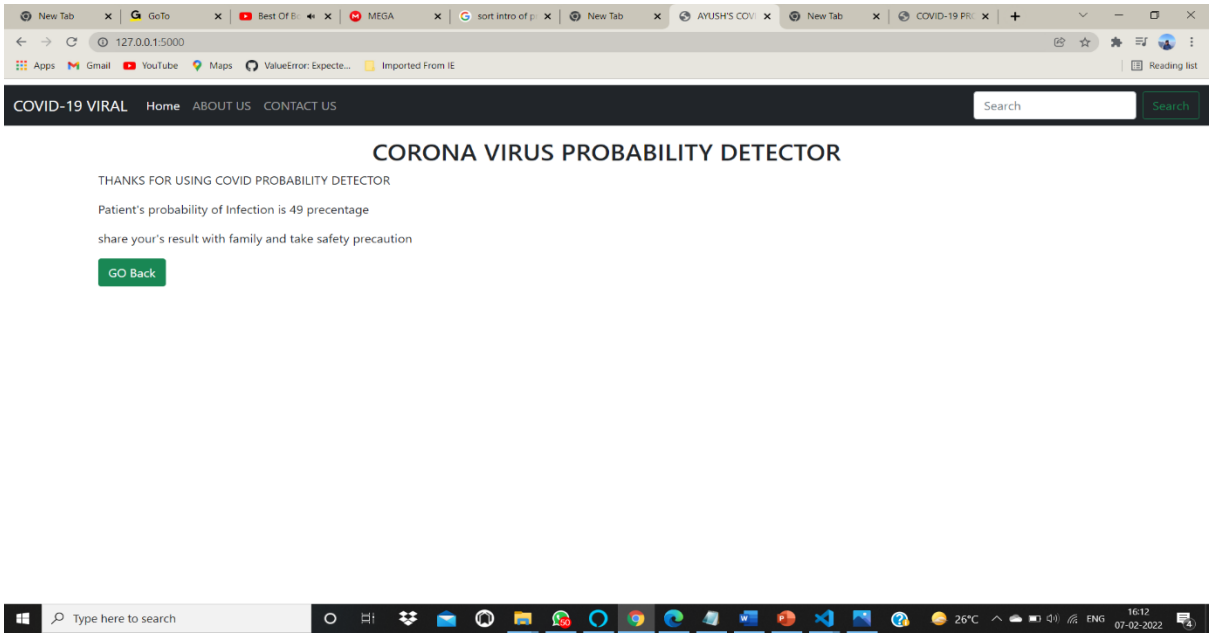
Oxygen level range:-40-99

Labels:

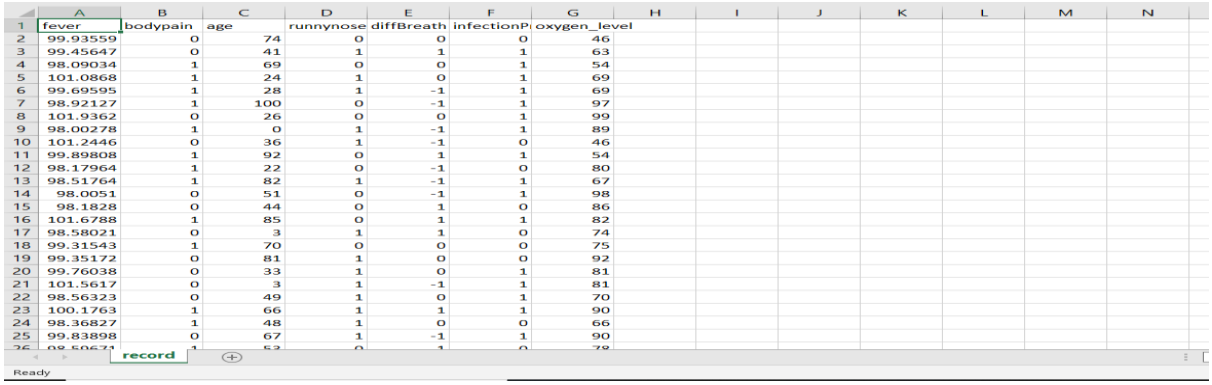
Probability of Covid-19 Infection



PREDICTION RESULT:-



DATASET USED FOR PREDICTION:-



	fever	bodypain	age	runnynose	diffBreath	infectionP	oxygen_level
2	99.93559	0	74	0	0	0	46
3	99.45647	0	41	1	1	1	63
4	98.09034	1	69	0	0	1	54
5	101.0868	1	24	1	0	1	69
6	99.69595	1	28	1	-1	1	69
7	98.92127	1	100	0	-1	1	97
8	101.9362	0	26	0	0	1	99
9	98.00278	1	0	1	-1	1	89
10	101.2446	0	36	1	-1	0	46
11	99.89808	1	92	0	1	1	54
12	98.17964	1	22	0	-1	0	80
13	98.51764	1	82	1	-1	1	67
14	98.0051	0	51	0	-1	1	98
15	98.1828	0	44	0	1	0	86
16	101.6788	1	85	0	1	1	82
17	98.58021	0	3	1	1	0	74
18	99.31543	1	70	0	0	0	75
19	99.35172	0	81	1	0	0	92
20	99.76038	0	33	1	0	1	81
21	101.5617	0	3	1	-1	1	81
22	98.56323	0	49	1	0	1	70
23	100.1763	1	66	1	1	1	90
24	98.36827	1	48	1	0	0	66
25	99.83898	0	67	1	-1	1	90

COVID SUPPORT WEBSITE :-

IN THIS WEBSITE ML PREDICTION MODEL IS DEPOLYED WITH INFORMATION TO AWARE THE PEOPLE ABOUT COVID 19 VIRUS.