Idea:

Data can be collected on the symptoms of COVID-19

A machine learning model trained in such a way that it can predict if the patient has been affected by the coronavirus or not.

It can help to reduce people who will have to be tested.

Data

Since we don’t have proper data available yet. Therefore, we will be using random data as of now. And in near future whenever we get proper data, we will be using it for proper results.

Machine Learning Model Parameters

A team of doctors can sit down to find out the correct features.

For now we will be taking into consideration the features that are being given by most doctors.

Features

Average Fever -Continuous

Body Pain -0/1 Binary

Age - Discrete

Runny Nose -

Difficulty Breathing –Categorical : -1/0/1

Labels

Probability of Covid-19 infection

Modules used:

Tensorflow

Numpy

Sklearn

Pickle

Logistic Regression used

In real life we try for all models and see which model gives best results and depending on that we use the model

Flask used

Misc:

1)Static templates

2)putting html files in templates

3)from bootstrap copying starter template

4)from Flask copying basic

5)Using pickle module

6) [Python Extension Packages for Windows - Christoph Gohlke](https://www.lfd.uci.edu/~gohlke/pythonlibs/#pyaudio) for installing packages sometimes

7)Copy paste navbar,make it dark …at a place its wriiten light..change it with dark.

8)Erase off nav bar items with dropdowns since not needed.

9)For adding sth. Add in a container.

Alignment center using text-center

Margin of 3 using mt-3

<div class=”container”>

<h2 class="text-center mt-3" >Coronavirus Probability Detector </h2>

</div>

10)Copy form from bootstrap website

11)For button ->

        <button class='btn btn-primary'> Sumbit </button>

12)    Setting value be cause of 0 and 1 used in python file

  <option value="0">No Pain</option>

            <option value="1">Severe Pain</option>

14) change name,id etc for each

15)     if request.method=='POST':

        print (request.form)

16)

    <div class="container">

      <h2 class="text-center mt-3" > Coronavirus Probability Detector  </h2>

      <form action="/" method="POST">

17)

        <button class='btn btn-primary'Sumbit </button>

18)

@app.route('/',methods=['GET','POST'])

19)

@app.route('/',methods=['GET','POST'])

def hello\_world():

    if request.method=='POST':

        print (request.form)

    inputFeatures=[102,1,22,-1,1]

    infProb=clf.predict\_proba([inputFeatures])[0][1]

    return render\_template('index.html')

    # return "hello world"+ str(infProb)

20) <p>Patient's Probability of infection is {{inf}}</p>

21)

22)

23)