CoBot (A smart chat bot)

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Introduction - As we all know due to coronavirus has changed our lives. Doctors and frontline workers have a lot of stress in terms of medical emergencies and educating people about coronavirus. It is very difficult for doctors to educate people about coronavirus symptoms etc.
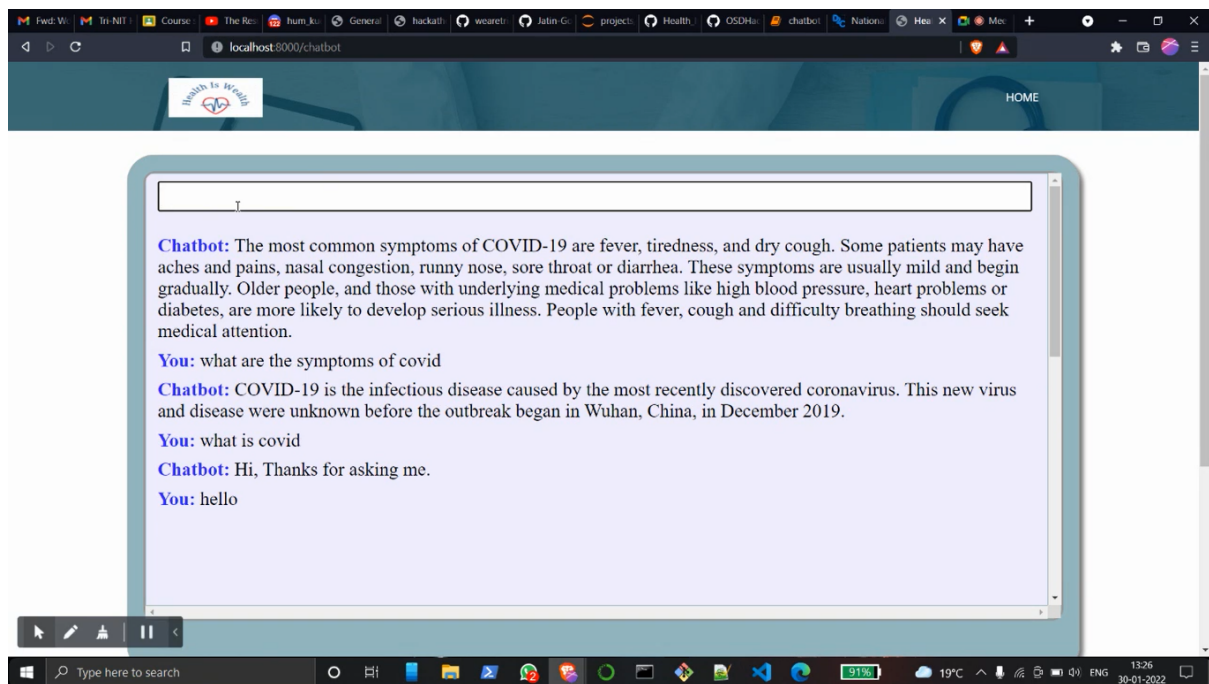
Proposed Method - To solve the problem of doctors and frontline workers we came up with the idea of **CoBot (An Smart corona Bot).** This bot can help people to understand better about coronavirus and know some necessary information regarding precautions and all.It is a web application which contains a smart x-ray scanner that takes x-ray images and based on that predict whether a person is positive or negative.

Work Done -

1. This is a corona chatbot where people can communicate with it.
2. Here people can chat with chat bot and ask their doubts regarding corona virus.
3. Here people can check their x-ray report to check whether they have corona infections or not.
4. This chabot helps to save time for doctors and frontline workers to educate people about corona.
5. Chatbot can answer questions like what is corona,how corona is spreading etc.

Result -

Bot Q & A -

X-ray Classification scores -


```
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score:-
[0.9977011494252873, 0.9994891443167305, 0.9984326018808778]
score mean and std:-
0.9985409652076319 0.0007339565795039311
======================================
```

Technology Used -

1. **Backend-**

   - Python
   - Django
2. **FrontEnd-**

- Html
- Css
- JavaScript
- Bootstrap

3. DataBase-

- Sql

4. Server-

- Local Host

5. Additional TechStack -

- Machine learning algorithm
- Classification
- Transfer learning

Conclusion - We successfully implement chatbot and x-ray classification. The accuracy of x-ray classification is about 95%. Chatbot is also able to query regarding corona virus.