A.I Doc

(A Healthcare Chatbot)

A brief Synopsis
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Course: Artificial Intelligence
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About the Project:

Healthcare chatbot is intended to provide personalized health and therapy information to patients, provide relevant products and services to patients, as well as suggest diagnoses and recommend treatments based on patient symptoms. This healthcare chatbot system will help hospitals to provide healthcare support online 24 x 7, it answers deep as well as general questions. By asking the questions in series it helps patients by guiding what exactly he/she is gotten into. This in term helps Doctor to get information about the patients before physical interaction if needed.
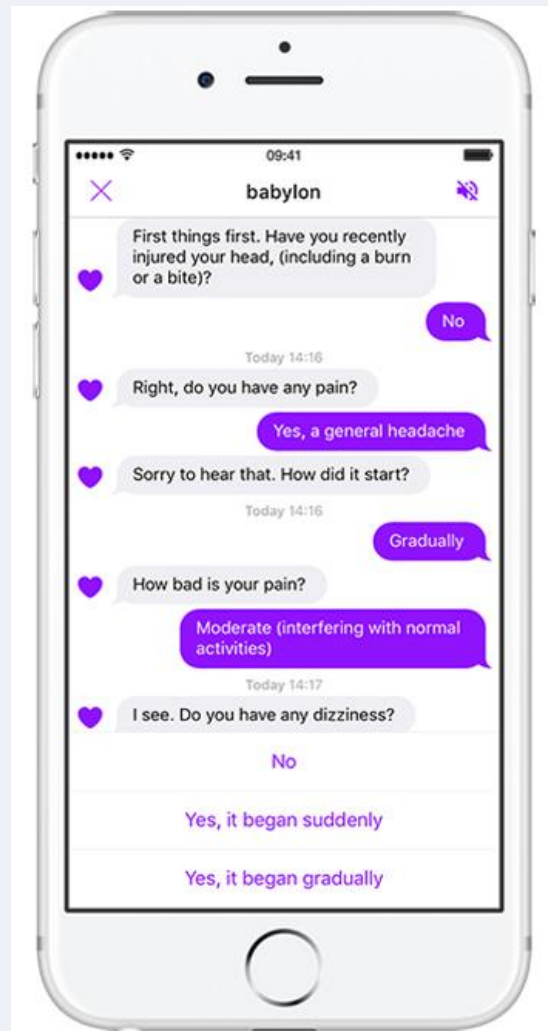
Why a sudden need of this Chatbot?

Chatbots are services that people interact with through a messenger. Instead of having a conversation with another person, the user talks with a bot that's either powered by basic rules or machine learning. Every chatbot serves a specific purpose — health bots are designed to help with health-related issues

Future Scope of this Project

- Design to help with health-related issues.
- More precise diagnoses and recommend treatment based on patients' symptoms.
- More interactive interface.

Primary reason for this Project

Ease the burden on doctors in primary care and help patients learn to take care of their health responsibly.

This project can contribute a lot towards the healthcare sector.

It can ease the work of Doctor's by reducing the number of patients by providing general information about the patient from its database.

It can help the patients to learn to take care of their health responsibly.

People will be able to treat themselves from their homes.

This powerful tool which the healthcare professionals can use to save time, so they can focus more on delivering great care. They're resources that patients and the customers of healthcare businesses can access to get information, suggestions, and assistance 24/7 to improve their health. Basically, bots facilitate a better healthcare experience overall.

Why is it best?

- Instantly 24/7 arability.
- A friendly humanly way interaction.
- Access anywhere, no matter where you are located.

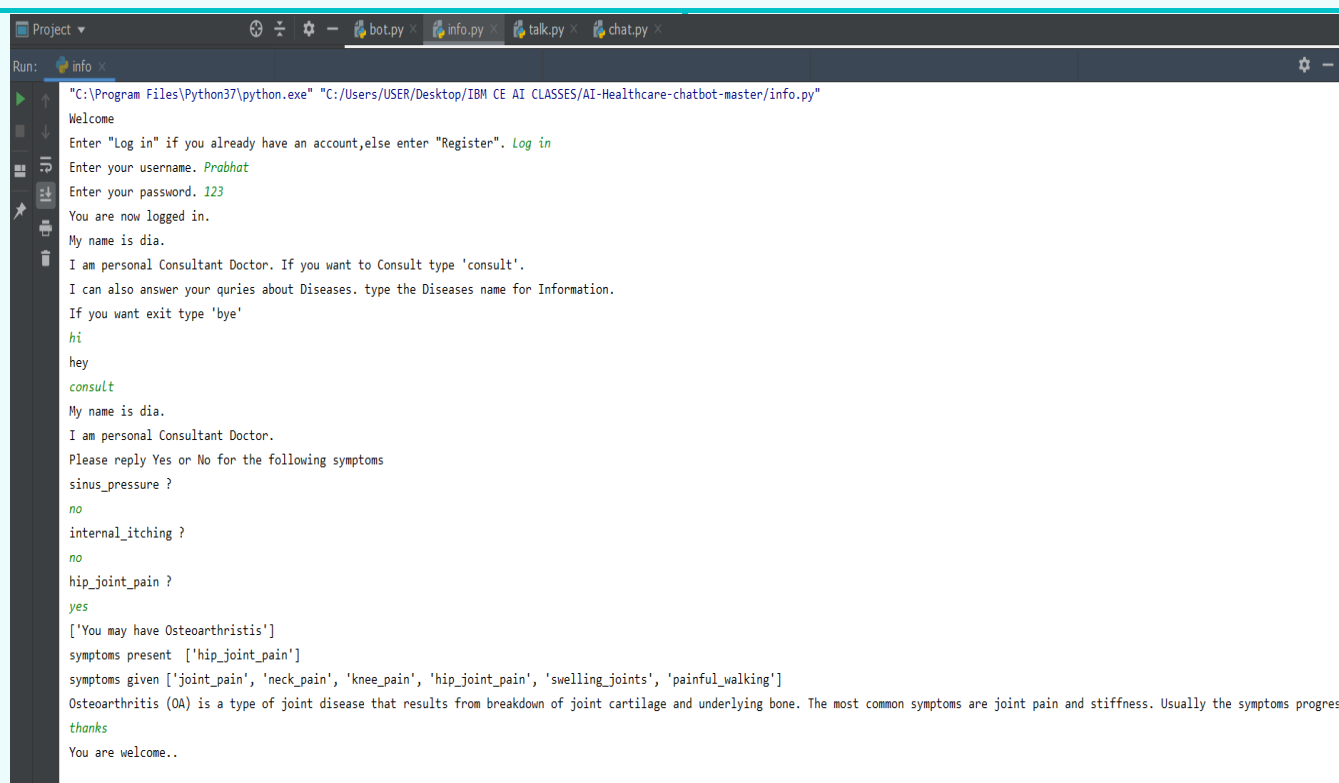This are the few advantages of this bot.

Tools and concept used:

The project is based on Decision tree algorithm which help it to predict the diseases caused by the symptom given by the user.

It can also provide details about the disease as well as a diagnosis. By using the Wikipedia lib.

The data and datasets are processed by the pandas lib, numpy lib, sklearn lib, random lib, sys lib and squlite3 lib.

Working steps: (as a user)

1. User logs in or register into the system. Where his data is stored in a database.
2. When log in or registration is completed the user interacts with the A.I. the A.I greets the user and is able to talk to the user and provide consultant.
3. The user is asked for the symptoms present and the A.I responses with the most confident diseases.
4. The is also able to ask about the disease.

```
"C:\Program Files\Python37\python.exe" "C:/Users/USER/Desktop/IBM CE AI CLASSES/AI-Healthcare-chatbot-master/info.py"
Welcome
Enter "Log in" if you already have an account,else enter "Register". Log in
Enter your username. Prabhat
Enter your password. 123
You are now logged in.
My name is dia.
I am personal Consultant Doctor. If you want to Consult type 'consult'.
I can also answer your quries about Diseases. type the Diseases name for Information.
If you want exit type 'bye'
hi
hey
consult
My name is dia.
I am personal Consultant Doctor.
Please reply Yes or No for the following symptoms
sinus_pressure ?
no
internal_itching ?
no
hip_joint_pain ?
yes
['You may have Osteoarthristis']
symptoms present  ['hip_joint_pain']
symptoms given ['joint_pain', 'neck_pain', 'knee_pain', 'hip_joint_pain', 'swelling_joints', 'painful_walking']
Osteoarthritis (OA) is a type of joint disease that results from breakdown of joint cartilage and underlying bone. The most common symptoms are joint pain and stiffness. Usually the symptoms progres
thanks
You are welcome..
```

You can find the working video in the given link below which shows the output of the program.
https://drive.google.com/file/d/1D2anq-DP18ngYwKZULQFJCUWC-SjOhEw/view?usp=drivesdk

the references:

- https://www.wikipedia.org
- https://www.kaggle.com
- https://www.w3schools.com/
- https://github.com
- https://www.google.com