AI-Based Chatbot for Disease Prediction

Courses:

Software Engineering, CSN-302

Web Technologies, CSN-303

Artificial Intelligence, CSN-305

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Project Summary

The Problem:

The healthcare of people has increasingly been affected during the COVID-19 Pandemic. Due to the rational fear to go out physically because of COVID-19, many people are unable to diagnose their symptoms. Sometimes, this can even become dangerous. Moreover, if a person resides in a place where there is lack of prompt diagnosis, his or her life might be in danger due to the absence of a system to help them. Thus to promote the healthcare of the citizens of our country, technology must be utilized to its fullest potential to develop something that would benefit a lot of people on a large scale.

Proposed Solution:

To solve the above-mentioned problem, we propose an Intelligent AI-Powered Chat-Bot on a dedicated website which will do the following:

(1) Ask the patient about symptoms
(2) Predict the disease based on these symptoms
(3) If treatable at home, give a recommended treatment at home
(4) Otherwise give the location or contact of the nearest Hospital

Requirements for such a solution:

To implement the above-mentioned system, we will require the following:

(1) Disease symptom dataset
(2) AI-ML Model for Disease Classification
(3) HTML, CSS, JavaScript, PHP for the Website
(4) Python 3.6+ and related Machine Learning Libraries for the Model
(5) Heroku CLI to deploy the app in real-time.