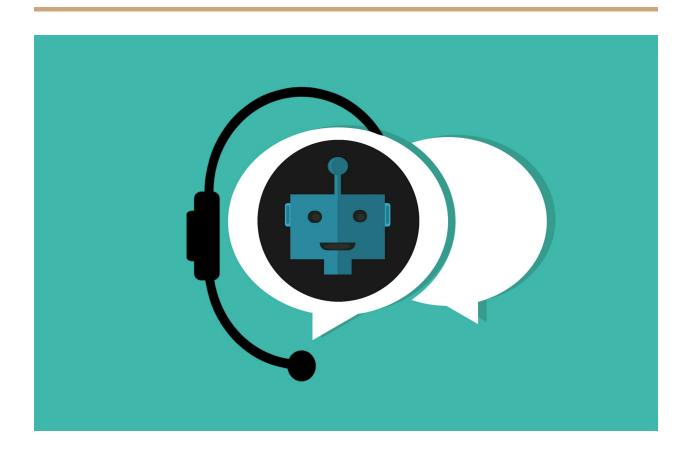
Machine Learning & NLP Chatbot



Members:-

Aniket Choudhary	18803002	B13
Vaibhav Gupta	18803006	B13
Sanyam Goel	18803031	B13

Submitted To:-

Dr. K Vimal

CSE Department, JIIT Noida, Sector - 62

Introduction

In our project, we explore how a chatbot can give information and answer queries given to it. A chatbot is an artificial intelligence software that can simulate a conversation (or a chat) with a user in natural language through messaging applications, websites, mobile apps, or the telephone.

Design and Working

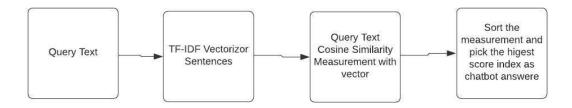
We are trying to implement a rule-based chatbot.

In which, we will be taking a webpage from any website (maybe a text file stored on a web server) based on a particular theme on which we want to build our chatbot. For Example https://en.wikipedia.org/wiki/India.

The main aim of chatbots is still to automate the questions given by humans, so that's why we need data to develop the rules.

Then, we perform vectorization (separation of paragraphs, then forming vectors of sentences) and then calculate Cosine similarity to check the level of similarity between different sentences.

After that, we are making a website, using the backend as Flask server, which we are linking to our main python code for a smooth UI experience of inputting a query and getting the answer (output).



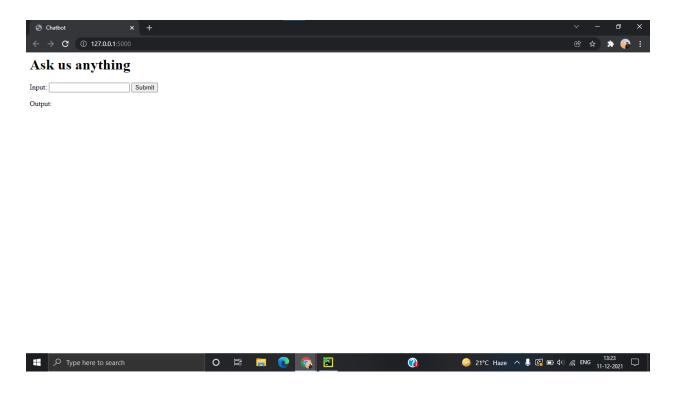
Background Study

Chatbots have emerged as a hot topic in recent years, and it is used by numerous companies in various areas - help desk tools, automatic telephone answering systems, e-commerce, and so on. Even though the technology has been around since the '60s (Atwell & Shawar, 2007). But still, we are interested in this technology as This can be explained by recent years' advancements in messaging applications and AI technology.

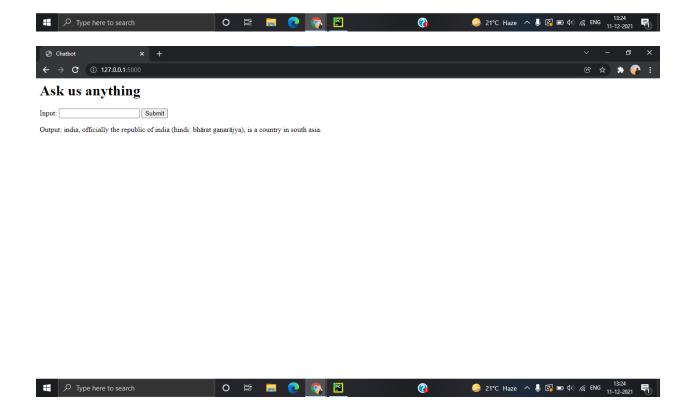
Limitation Of our Project

It is a chatbot machine that is based on specific rules to answer the text given by humans. The generated response by this chatbot is near accurate because of the rule it imposed; however, if we were given a query that did not match the rule, the chatbot would not answer it.

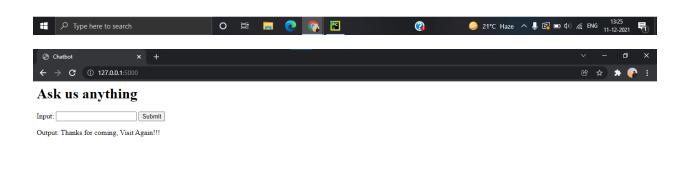
Snapshots of Project



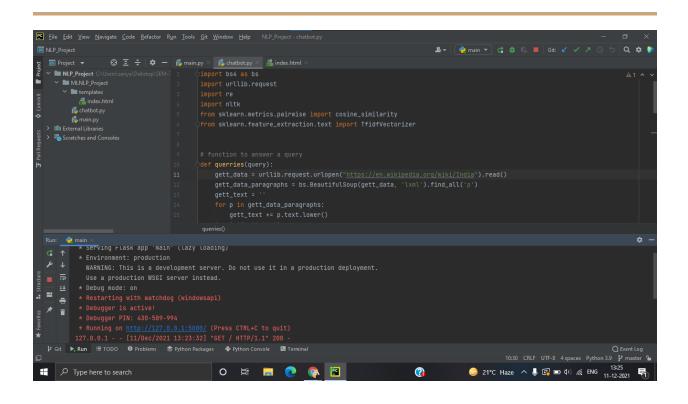


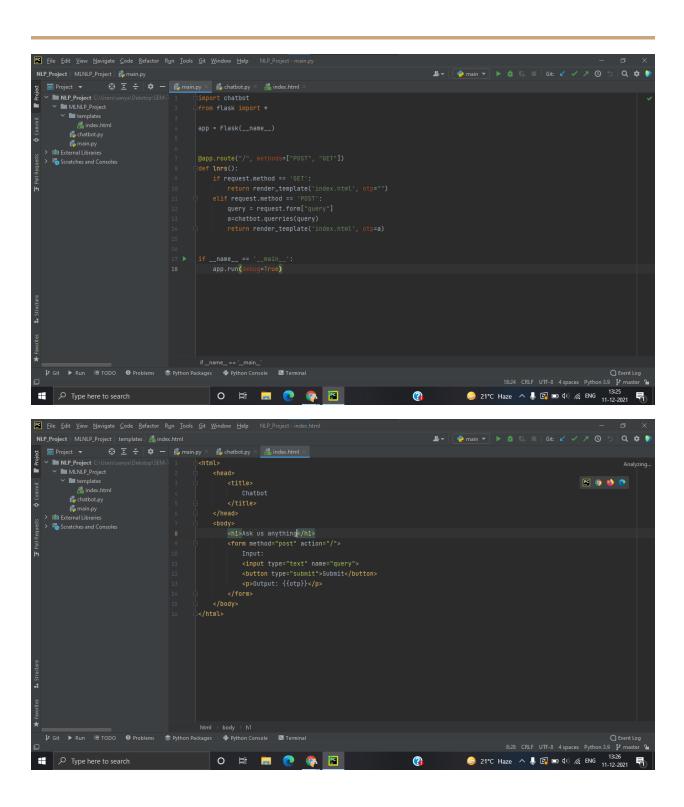












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