

Report on Assignment

Github link for

task-https://github.com/harshmeet30/assignment_task_bot

Done by- Harshmeet Singh Chandhok

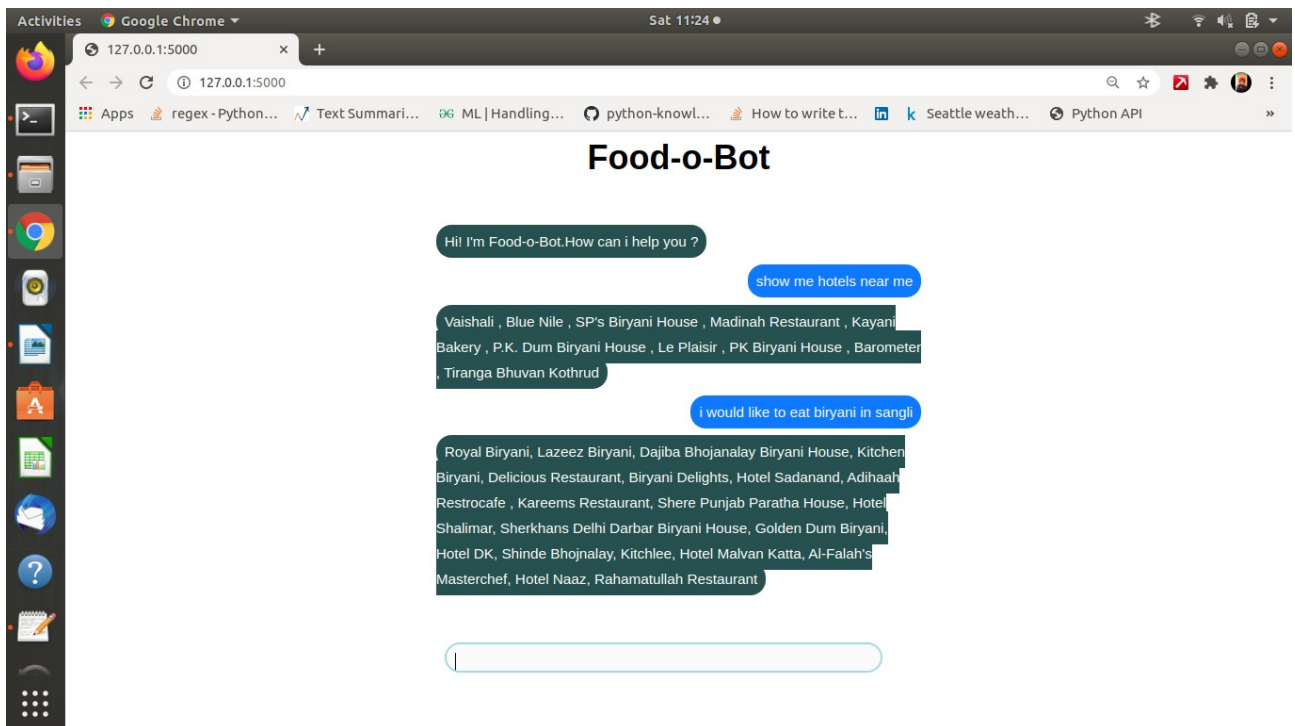
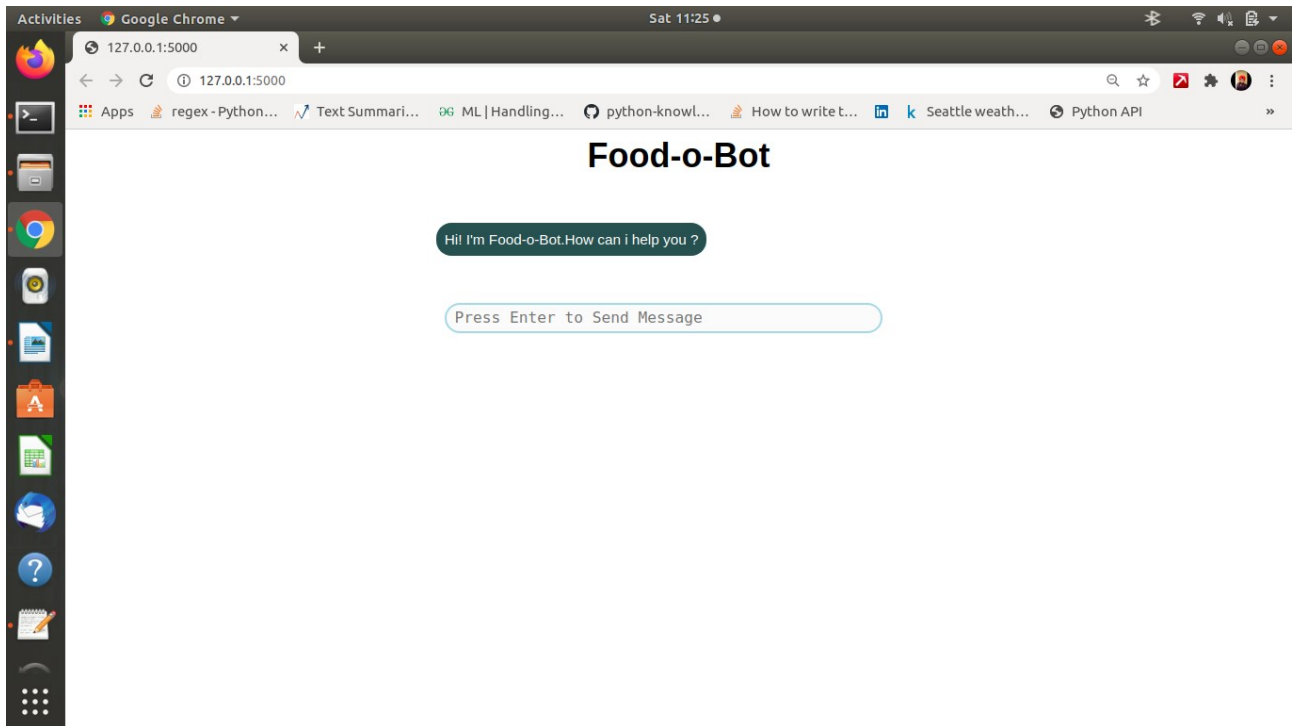
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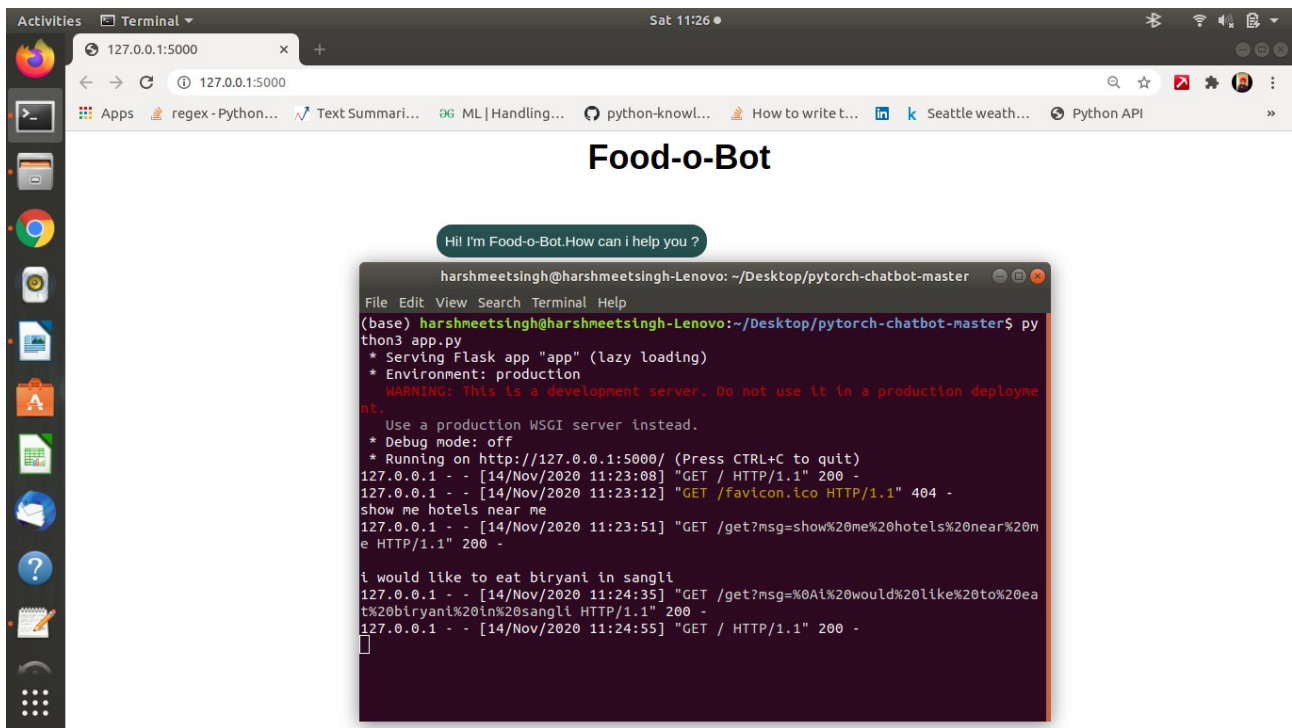
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Introduction- Built chatbot using neural network (used pytorch), NLP techniques and Zomato API and deployed it using Flask, HTML, CSS, Bootstrap and Javascript.

Steps-

1. Used Zomato Api and made methods for getting location, location information and searching hotels based on cuisine.
2. Made intents and stored it in json file in format of tags, patterns, response and context.
3. Used intents.json file to train neural network over the data processed from the json file using NLP techniques- Bag of Words(BOW), Stemming(using porterstemmer), tokenizing(using nltk).
4. Now binding all together methods and neural network model together- the input from the user will classify where the input should belong to the particular tag mean in which intent it should go.
5. Beautifulsoup is also used to extract the users current location applied that location access should be turned on such that it will scrape out location from google search.
6. Further the model and code is deployed on flask and UI provided by HTML, CSS, Bootstrap and Javascript.
7. Wanted to deploy it over heroku but **due to size going to 886 MB and free account only has 500 MB limit** so this part remained.
8. **For running the project just run app.py** applied all the requirements installed.
9. Some of the screenshots are given below for the working project.





10. Further UI can be more enhanced .