Project Title: Clutch the Lehigh University Chatbot

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Description:

Clutch, Lehigh's mascot, is now an innovative chatbot designed specifically for Lehigh students, or incoming Lehigh students. The chatbot is well versed in the campus, and will provide tips as well as give websites from the school. The bot also can engage in very basic conversation but is meant to answer questions about the school.

Dependencies:

The file can be run natively if all python extensions are installed including: nltk, tensorflow, flask, and numpy. Tensorflow will only work natively on Windows computers. The project can be run by running the flaskapp.py program. The chatbot.py program offers the same chatbot but without the HTML interface.

Installation:

pip install nltk

pip install tensorflow

pip install flask

pip install numpy

Usage:

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Example:

Things to ask Clutch the Lehigh University Chatbot:

This is a list of things to ask the chatbot, but questions entered can vary and still give the same result. Try these questions as well as any other questions you may have. All of these test cases have been tested and are working.

- How are you?

- What is the weather like there?

- Any food suggestions?

- How to stay healthy as a college student?

- Who are you?

- What time is campus open?

- What programs are offered?

- What are fees?

- Where is campus located?

- Who is campus president?

- What are scholarships?

Project Structure:

Flaskapp.py runs everything

style.css styles the website

index.html is the website

training.py is the neural network

intents.json are the programmed responses

chatbot model folder is the model of the chatbot

the .pkl files store previous interactions