ASSIGNMENT 3: CREATE A SIMPLE Q&A CHATBOT WITH PYTHON

Advance Artificial Intelligence (MSCS-633-A01) - First Bi-term

MURALI KRISHNA CHINTHA
005034546

Terminal Client Chatbot using Django and ChatterBot

1. Introduction

This assignment involved creating a terminal-based chatbot client using Django and ChatterBot. ChatterBot is a Python-based machine learning conversational dialog engine that generates responses based on collections of known conversations. The goal was to integrate it into a Django project and provide an interface for interaction through the terminal.

2. Project Overview

The project enables a user to interact with a chatbot directly from the command line. The chatbot is trained on a basic set of conversations and responds dynamically to user input.

Key Features:

- Built using Python and Django framework.
- Integrated with ChatterBot for conversational responses.
- Terminal-based client for simple interaction.
- Follows coding best practices with clear structure and comments.

3. Deliverables

1. **Python Source Code**
    - Django project files and application code.
    - Chat client (chat_cli.py) for terminal-based interaction.
    - *chatbot_cli/cli_project/chatbot/management/commands/chat_cli.py*
2. **Manifest File**
    - Provides setup instructions, dependencies, and usage details.
    - Lists Python version and required libraries (Django, ChatterBot).
    - *chatbot_cli/cli_project/manifest.json*
3. **Screenshot**
    - A screenshot demonstrating chatbot interaction in the terminal.

4. **GitHub Repository Link**
    - Publicly accessible repo containing source code, manifest file, and README.

- *https://github.com/mkchintha/MSCS-633-A01-Assignment3*

4. Screenshot of Chatbot Interaction

5. GitHub Repository URL

The complete source code, manifest file, and instructions are available at:

https://github.com/mkchintha/MSCS-633-A01-Assignment3

6. Conclusion

This project successfully demonstrates the integration of Django and ChatterBot to create a functional terminal chatbot. The assignment highlights practical skills in setting up environments, managing dependencies, writing Python code, and documenting work for academic submission.