**DESCRIPTION:**

This AI Chatbot project is designed for the Advance Python Class by Muzaffar Ali. The Chatbot leverages the DialoGPT model from the Transformers library to handle natural language processing and generate responses. The project uses Flask as a lightweight web framework to create a web interface for the Chatbot.

**ADDITIONAL INFORMATION**

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**Version:** 1.0

**Created Date:**  07/08/2024

**Purpose:** This project is aimed at building a simple AI Chatbot using advanced Python Libraries.

**License**: Public

**REQUIREMENTS**

1. **Flask**: A lightweight web framework for building web applications in Python.
2. **Transformers**: A library for state-of-the-art natural language processing models, including DialoGPT.
3. **Torch**: An open-source machine learning library for deep learning models and neural networks.

**STEPS TO SET UP THE ENVIRONMENT**

**1. Create a Virtual Environment**

To create a virtual environment, run the following commands:

* **For macOS/Linux:**

**Create**: python3 -m venv venv

**Activate**: source venv/bin/activate

* **For Window:**

**Create**: python –m venv (directory name)

**Activate**: source venv/bin/activate

**2. Install Dependencies**

With the virtual environment activated, install the necessary dependencies:

1. pip install flask
2. pip install transformers
3. pip install torch

**CODE:**

For main code please check the app.py in folder

For HTML please check gpt.index inside the template folder.

**EXECUTION:**

Cd Scripts\activate.bat # Activate the virtual environment (Windows)

Run the Application: python app.py

**ACCESS THE CHATBOT:**

Open a web browser and go to http://127.0.0.1:5000/ to interact with your Chatbot.