**Defense Chatbot Demo**

This repository contains a simple implementation of a Defense Chatbot using Flask and AJAX. The chatbot interacts with a machine learning model hosted on an Azure endpoint to provide responses based on user input.

**Files**

**Chat.py**

This Python script defines a Flask web application with two routes:

* **/**: Renders the main HTML template (**index.html**).
* **/chat**: Handles AJAX requests from the frontend to interact with the chatbot.

The **get\_bot\_response** function sends user input to an Azure endpoint and returns the bot's response. The Flask app maintains a chat history to display the conversation.

**Index.html**

This HTML file defines the structure of the web page. It includes a chat container, user input section, and styling using CSS. JavaScript functions handle user input, sending messages to the server, and displaying messages dynamically.

**Usage**

1. Ensure you have Python and Flask installed.

bashCopy code

pip install Flask

1. Run the Flask application by executing the **Chat.py** script.

bashCopy code

python Chat.py

1. Open your web browser and navigate to [http://localhost:5000](http://localhost:5000/) to access the Defense Chatbot Demo.
2. Type your messages in the input field and press "Enter" or click the "Send" button to interact with the chatbot. The conversation history will be displayed on the page.

**Dependencies**

* Flask
* Requests
* Flask-CORS

**Configuration**

Before running the application, make sure to update the following variables in **Chat.py**:

* **ENDPOINT\_URL**: Azure endpoint URL for the machine learning model.
* **API\_KEY**: API key for authentication with the Azure endpoint.

**Note**

This demo assumes the existence of an Azure endpoint with a deployed machine learning model accessible through the provided URL and API key. Adjustments may be needed based on the actual deployment configuration.

Feel free to customize the HTML, CSS, and JavaScript to enhance the user interface or adapt it to different chatbot models.