

Setup Guide for RaceGPT Chatbot

This guide will walk you through setting up the environment, installing dependencies, and running the RaceGPT chatbot.

1. Setup the Zip Folder

1. Download or Clone the Project:

- Unzip the folder containing the RaceGPT chatbot files (like `multiapp.py`, `transcript data`, etc.).

2. Folder Structure:

Ensure your folder structure looks like this:

```
racegpt_chatbot/
├── .env
├── multiapp.py
├── transcripts/
│   ├── Race1/
│   │   ├── driver1.txt
│   │   ├── driver2.txt
│   ├── Race2/
│   │   ├── driver1.txt
├── requirements.txt
```

- The **transcripts** folder contains the race transcript text files categorized by races.
- The **.env** file stores your environment variables (API keys, etc.).

2. Install Python and Virtual Environment (Optional)

Make sure you have Python 3.7+ installed on your system. Then set up a virtual environment to isolate your dependencies.

Create Virtual Environment (Optional but Recommended):

```
# Navigate to your project folder
cd racegpt_chatbot

# Create a virtual environment
python3 -m venv venv

# Activate the virtual environment
# On Windows:
venv\Scripts\activate

# On macOS/Linux:
source venv/bin/activate
```

3. Install Dependencies

Install the Required Packages:

Inside the `racegpt_chatbot` folder, install the required Python libraries using the `requirements.txt` file:

```
# Make sure you are inside the racegpt_chatbot folder
cd racegpt_chatbot

# Install the necessary Python packages
pip install -r requirements.txt
```

The `requirements.txt` file contains dependencies like `openai`, `chainlit`, `tqdm`, `sentence_transformers`, etc.

4. Configure Environment Variables

You need to set up an `.env` file in the project folder containing your Azure OpenAI credentials.

Example `.env` File:

```
AZURE_OPENAI_API_KEY=your_api_key_here
AZURE_OPENAI_API_BASE=https://your_openai_resource_name.openai.azure.com/
AZURE_OPENAI_API_VERSION=2023-03-15-preview
AZURE_OPENAI_DEPLOYMENT_NAME=RaceGPT4oMini
```

- **AZURE_OPENAI_API_KEY:** Your Azure OpenAI API Key.
- **AZURE_OPENAI_API_BASE:** The base URL for your Azure OpenAI instance.
- **AZURE_OPENAI_API_VERSION:** The API version.
- **AZURE_OPENAI_DEPLOYMENT_NAME:** The name of your Azure OpenAI deployment.

5. Run the Chatbot

Once everything is set up, you can run the chatbot using Chainlit.

```
# Make sure you are inside the racegpt_chatbot folder
cd racegpt_chatbot

# Run the Chainlit app
chainlit run multiapp.py
```

This will start the Chainlit server and provide you with a local URL (usually `http://localhost:8000`), where you can interact with the RaceGPT chatbot.

Troubleshooting:

- If the app fails to start, ensure all dependencies are correctly installed.
- If any API calls fail, double-check that your `.env` file is properly configured with valid Azure OpenAI credentials.