How to Run the NLP2SQL Project

1. Clone the Repository

Open your terminal and run the following commands to clone the project repository: git clone https://github.com/Ajaneeshwar/NLP2SQLL.git cd NLP2SQL

2. Set Up Environment

Create an environment file to configure the project:

Create a .env file

cat << EOF > .env

Azure Configuration

LLM PROVIDER=AZURE

OPENAI_ENDPOINT="https://[ENDPOINT_NAME].openai.azure.com"

OPENAI API VERSION="2024-08-01-preview"

OPENAI API KEY="YOUR AZURE OPENAI API KEY"

MODEL NAME="YOUR AZURE OPENAI MODEL NAME"

Gemini Configuration

LLM PROVIDER=GEMINI

GEMINI API KEY="YOUR GEMINI API KEY"

EOF

Replace placeholders with your actual Azure and Gemini API credentials.

3. Install Dependencies

Make sure you have Python installed, then execute:

pip install -r requirements.txt

4. Launch the Application

Run the Streamlit application:

streamlit run app/NLP2SQL.py

5. Access the Web Interface

Open your browser and navigate to the local URL displayed (usually http://localhost:8501).

6. Use the Application

- Enter a natural language query to generate SQL.
- View the visualizations and analytics presented on the dashboard.
- Export results in your preferred format.