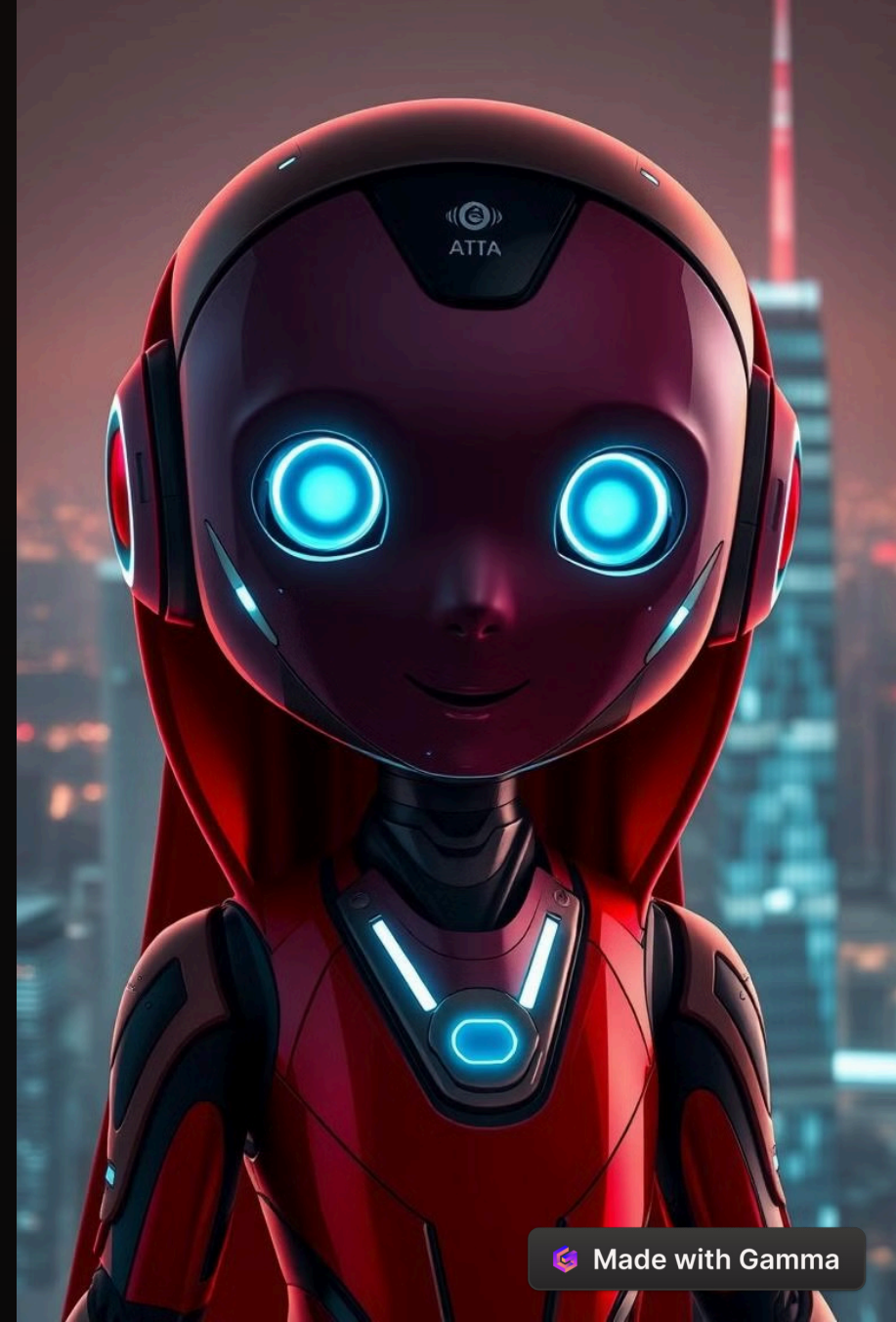


Techietalks AI - Multi-Model Chat Assistant

Welcome to the Techietalks AI repository! This project is a multi-model AI-powered chat assistant built using Streamlit, Pydantic_AI, and multiple AI models like OpenAI, DeepSeek, and Gemini. It allows users to interact with different AI models, switch between them, and enjoy a conversational experience. Additionally, this version includes Retrieval-Augmented Generation (RAG) functionality for processing PDFs and text files, website content integration, and an enhanced booking tool for generating personalized booking reference numbers.



by **Sreeprakash Neelakantan**



Repository Structure

Core Files

- `.env`: Stores environment variables like API keys.
- `.gitignore`: Specifies files to ignore during Git commits.
- `Dockerfile`: Instructions to build a Docker image for the Streamlit application.
- `README.md`: This file, providing an overview and setup instructions.
- `app.py`: The main application file, containing the Streamlit-based chat interface, AI model integration, RAG functionality, website content integration, and enhanced booking tool.
- `docker-compose.yml`: Configuration file to run the application using Docker Compose.
- `requirements.txt`: Lists Python dependencies.

Data and Web

- `data/`: Directory containing PDFs, text files, and vector embeddings for RAG functionality.
- `web/static/index.html`: Static HTML file served by the NGINX web server.

How It Works



Streamlit

Powers the interactive chat interface.



OpenAI

Generates conversational responses.



DeepSeek

Provides conversational responses.



Gemini

Generates responses.

Setup Instructions

1 Prerequisites

Python 3.11, Docker, and API keys for OpenAI, DeepSeek, and Gemini.

2 Clone the Repository

Use Git to clone the repository and navigate to the project directory.

3 Set Up Environment Variables

Create a .env file and add your API keys for OpenAI, DeepSeek, and Gemini.

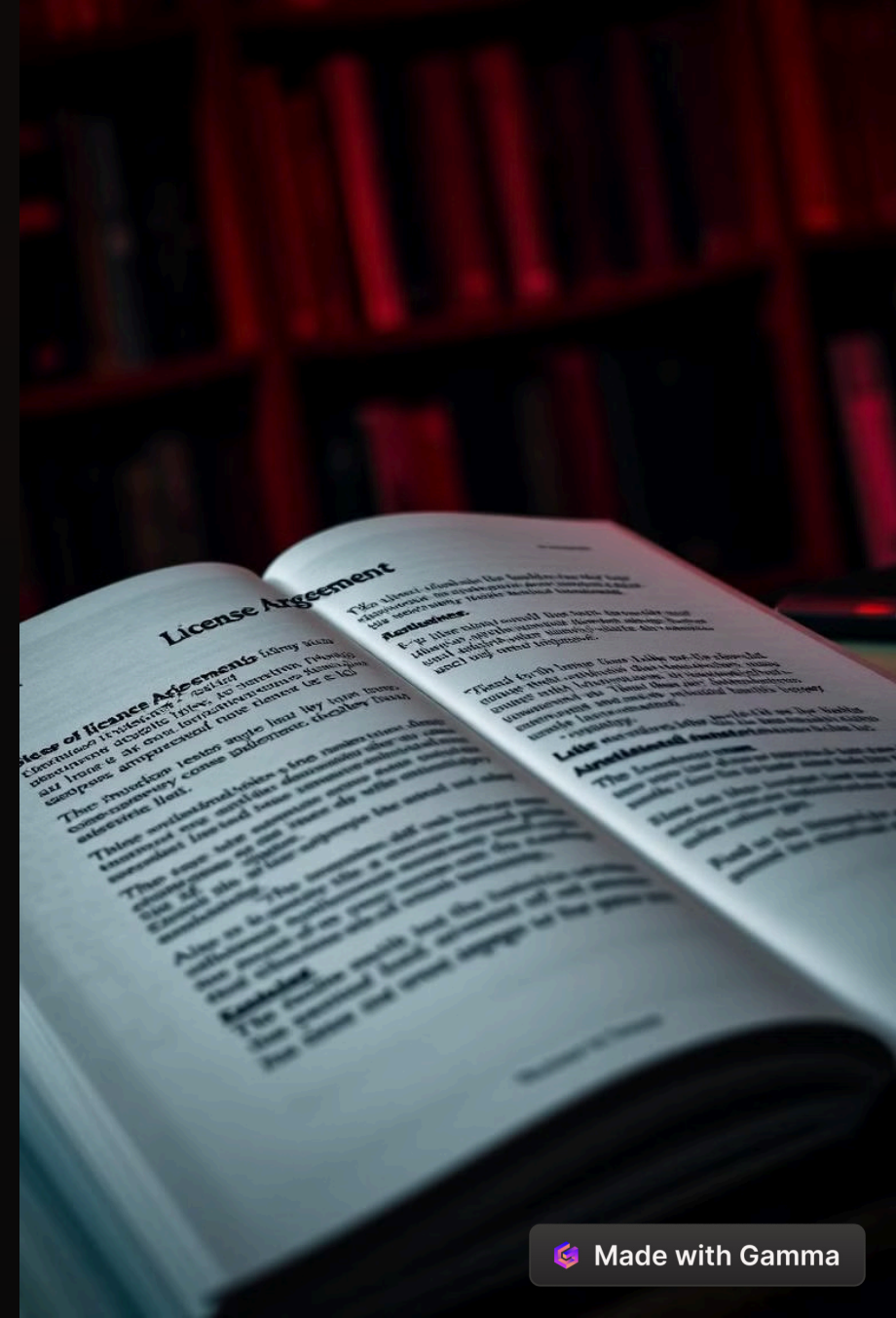
4 Run the Application

Use Docker Compose to build and run the application. Access the Chat Assistant at <http://localhost:8502> and the Web Server at <http://localhost:8503>.



License

This project is open-source and available under the MIT License. Feel free to use, modify, and distribute it as needed.



Contact

For AI consultancy, training, and development, contact Schogini Systems Private Limited at <https://www.schogini.com>.



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Enjoy Techietalks AI!

Enjoy using the Techietalks AI Multi-Model Chat Assistant with RAG, Text File Support, and Enhanced Booking Tool! If you have any questions or feedback, feel free to reach out. 😊

