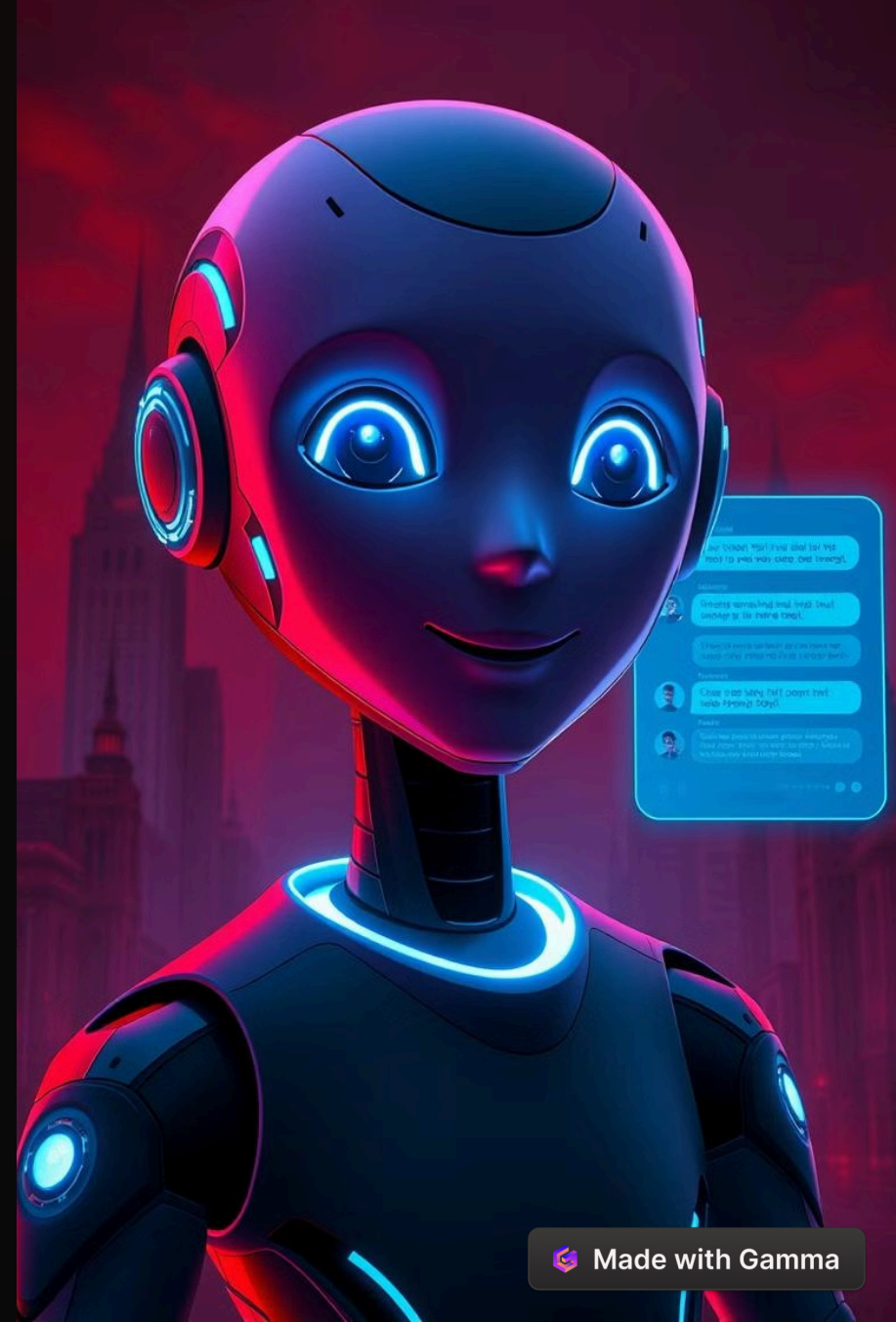


# Techietalks AI - Multi-Model Chat Assistant

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 a booking tool for generating booking reference numbers.



by **Sreeprakash Neelakantan**



# Repository Structure

## Core Files

- .env: Stores API keys
- .gitignore: Specifies files to ignore
- Dockerfile: Builds Docker image
- README.md: Project overview and instructions
- app.py: Main application file
- docker-compose.yml: Configuration for Docker Compose
- requirements.txt: Python dependencies

## Data Directory

- pdfs/: Stores uploaded PDF documents
- texts/: Stores uploaded text files
- vector\_store/: Stores vector embeddings for RAG

## Web Server

- web/static/index.html: Static HTML file served by NGINX

# How It Works



## **Streamlit**

Powers the chat interface



## **OpenAI API**

Generates conversational responses



## **DeepSeek API**

Provides conversational responses



## **Gemini API**

Generates responses

# Setup Instructions

1

## Prerequisites

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

2

## Steps

Clone the repository, set up environment variables with API keys, run the application using Docker Compose, upload PDFs, text files, or add website URLs, and use the booking tool.

# License

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# Contact

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

# Author

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Website: <https://www.schogini.com>

GitHub: <https://github.com/schogini/techietalksai.git>





# Enjoy Techietalks AI!

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