



# 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. The app also includes a "New Chat" button to reset the conversation and start fresh.



by **Sreeprakash Neelakantan**

# Repository Structure

## 1. .env

A file to store environment variables, such as API keys.  
Important: Add your OPENAI\_API\_KEY, DEEPSEEK\_API\_KEY, and GEMINI\_API\_KEY here to authenticate with the respective APIs.

## 4. Dockerfile

Contains instructions to build a Docker image for the application. It sets up a Python environment, installs dependencies, and runs the Streamlit app.



# How It Works



## Streamlit

A framework for building interactive web applications with Python. It powers the chat interface.



## OpenAI API

A powerful AI model for generating conversational responses.



## DeepSeek API

An AI model that provides conversational responses.



## Gemini API

Another AI model for generating responses.



# Setup Instructions

1

## Prerequisites

Ensure Python 3.11 is installed on your system. Optionally, install Docker if you want to run the app in a container. Obtain API keys for OpenAI, DeepSeek, and Gemini from their respective websites.

3

## Install Dependencies

If running locally, install dependencies using `pip install -r requirements.txt`. If using Docker, skip this step.

2

## Steps

Clone the repository using `git clone https://github.com/schogini/techietalksai.git` and `cd techietalksai/0005`. Create a `.env` file in the project directory and add your API keys:  
`OPENAI_API_KEY=your_openai_api_key_here`  
`DEEPSEEK_API_KEY=your_deepseek_api_key_here`  
`GEMINI_API_KEY=your_gemini_api_key_here`.

4

## Run the Application

To run locally, use `streamlit run app.py`. To run using Docker, use `docker-compose up --build`. Open your browser and navigate to `http://localhost:8501` or `http://localhost:8502`, respectively.



## 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>.





# Author

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# Enjoy Techietalks AI!

Enjoy using the Techietalks AI Multi-Model Chat Assistant! If you have any questions or feedback, feel free to reach out. 😊