

Techietalks AI - Smart Chat Assistant (Enhanced)

Welcome to the Techietalks AI repository! This project is an enhanced version of a smart AI-powered chat assistant built using Streamlit, DeepSeek API, and Pydantic_AI. It allows users to interact with an AI assistant that can answer questions conversationally and concisely, while also maintaining a history of the conversation for context.



by **Sreeprakash Neelakantan**



Repository Structure

1. .DS_Store

A macOS-specific file that stores folder attributes (e.g., icon positions). You can ignore this file.

2. .env

A file to store environment variables, such as API keys. Important: Add your DEEPSEEK_API_KEY here to authenticate with the DeepSeek API.

3. .gitignore

Specifies files and folders that Git should ignore (e.g., .env to avoid exposing sensitive information).

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

1

Streamlit

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

2

DeepSeek API

An AI model that provides conversational responses. The app authenticates with the API using an API key stored in the .env file.

3

Pydantic_AI

A library that helps structure and validate AI responses.

4

Rich

A library used for pretty-printing debug information (e.g., conversation history).

Setup Instructions

Prerequisites

- Python 3.11
- Docker (optional)
- DeepSeek API Key

Steps

1. Clone the Repository
2. Set Up Environment Variables
3. Install Dependencies
4. Run the Application



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

Sreeprakash Neelakantan

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

Techietalks



Enjoy using the Techietalks AI Smart Chat Assistant!

If you have any questions or feedback, feel free to reach out. 😊