Project Documentation

AI Agent Hackathon - Product Space

Project Title: Internal AI Assistant

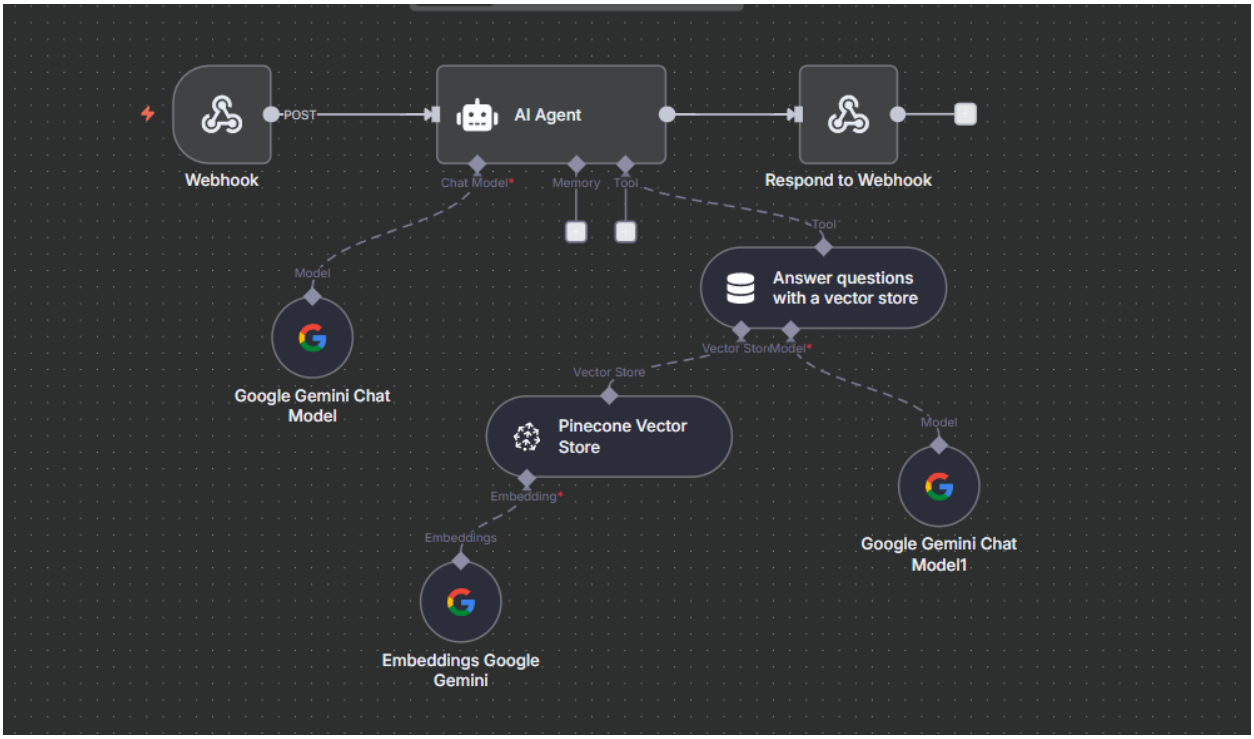
Overview

I participated in the **AI Agent Hackathon – Product Space (organized by [Organizer Name])** and built an **AI-powered Assistant** that helps employees quickly find information from scattered documents like Notion, Google Docs, and Confluence. The goal was to reduce the time wasted in searching through multiple knowledge sources.

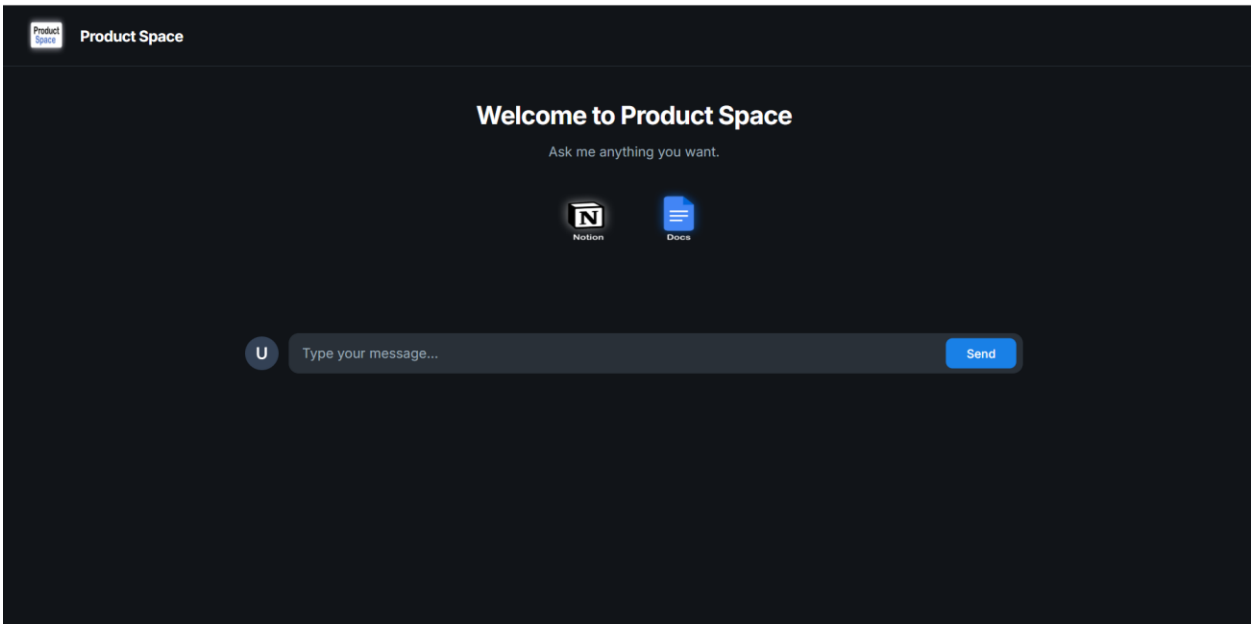
Problem Statement

Employees often waste time searching for internal processes, workflows, or updates across multiple platforms. This leads to inefficiency and delays in work. Our assistant solves this by enabling natural language queries and instantly retrieving the right information.

What I Did



1. **Data Processing & Vectorization**
    - Collected and uploaded multiple internal documents.
    - Converted text data into **vector embeddings** for semantic search.
2. **Backend Pipeline (RAG)**
    - Implemented a **Retrieval-Augmented Generation (RAG)** system.
    - Designed the pipeline to fetch the most relevant chunks of information from documents.
3. **User Interface (GUI)**
    - Built a simple and intuitive **Graphical User Interface**.
    - Enabled users to input questions and view results seamlessly.



4. **Chatbot Development**
    - Integrated the vector search with a conversational chatbot.
    - Enabled natural question answering with contextual responses.
5. **Testing & Validation**
    - Tested the system with sample queries like *“What is the refund policy?”*.
    - Ensured fast response time and accuracy in retrieving correct answers.

Key Features

✅ Upload and index multiple document sources
✅ Vector-based semantic search for accurate results
✅ Clean and easy-to-use GUI
✅ Real-time question answering via chatbot
✅ Fast and reliable performance

Conclusion

This project demonstrated how AI can save employees valuable time by making knowledge easily accessible. It was a great learning experience to design the pipeline, build a working prototype, and test it in real-time.

Dataset Reference

For building the RAG pipeline, the project also includes a **PDF file** containing the source data that was used for testing and retrieval.

Live Project Access

You can try the project live using this link: - tryfir.ccbp.tech
Just open the link and start asking questions to experience the assistant in action.

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Hackathon: AI Agent Hackathon – Product Space