PDF READER CHATBOT USING LANGCHAIN, OPENAI AND STREAMLIT

# Summary

This documentation outlines the development of a PDF reader chatbot using LangChain, OpenAI, and Streamlit. The chatbot is designed to read, understand, and respond to user queries about the content of PDF documents.

The PDF reader chatbot leverages LangChain for managing language model interactions, OpenAI for understanding and generating responses based on PDF content, and Streamlit for creating an interactive user interface.

# System architecture

User Interface (Streamlit)

PDF Upload Interface: Allows users to upload PDFs.

Chat Interface: Allows users to interact with the chatbot.

Backend Processing (LangChain and OpenAI)

PDF Text Extraction: Extracts text from uploaded PDFs.

NLP Processing: Uses OpenAI models to understand and respond to user queries.

Integration and APIs

Streamlit API: Handles interactions between the user interface and backend.

OpenAI API: Provides access to OpenAI's language models.

# Result

# Challenges

# Improvement

# conclusion