

# Wine Business Chatbot - Submission

## 1. Overall Approach

The chatbot utilizes the Lang Chain framework to preprocess and create embeddings from a PDF file. These embeddings are stored in a vector store, allowing the chatbot to retrieve relevant information and answer user queries.

## 2. Frameworks/Libraries/Tools Used

- Lang Chain: For creating embeddings and managing the vector store.
- OpenAI API: For generating responses.
- Streamlit: For creating the web interface.
- dotenv: For managing environment variables.

## 3. Problems Faced and Solutions

- Issue: Handling large PDF files.

Solution: Implemented document chunking to split the PDF into manageable parts.

- Issue: Ensuring accurate retrieval of information.

Solution: Fine-tuned the text splitting and embedding process to improve relevance.

## 4. Future Scope

- Feature Addition: Integrate support for multiple document types (e.g., Word, text files).
- Enhanced UI: Improve the user interface for a better user experience.
- Advanced Analytics: Add features to analyze user queries and improve response accuracy over time.

Github link: <https://github.com/Vishal-meena/PDF-Chatbot.git>

Video Link: