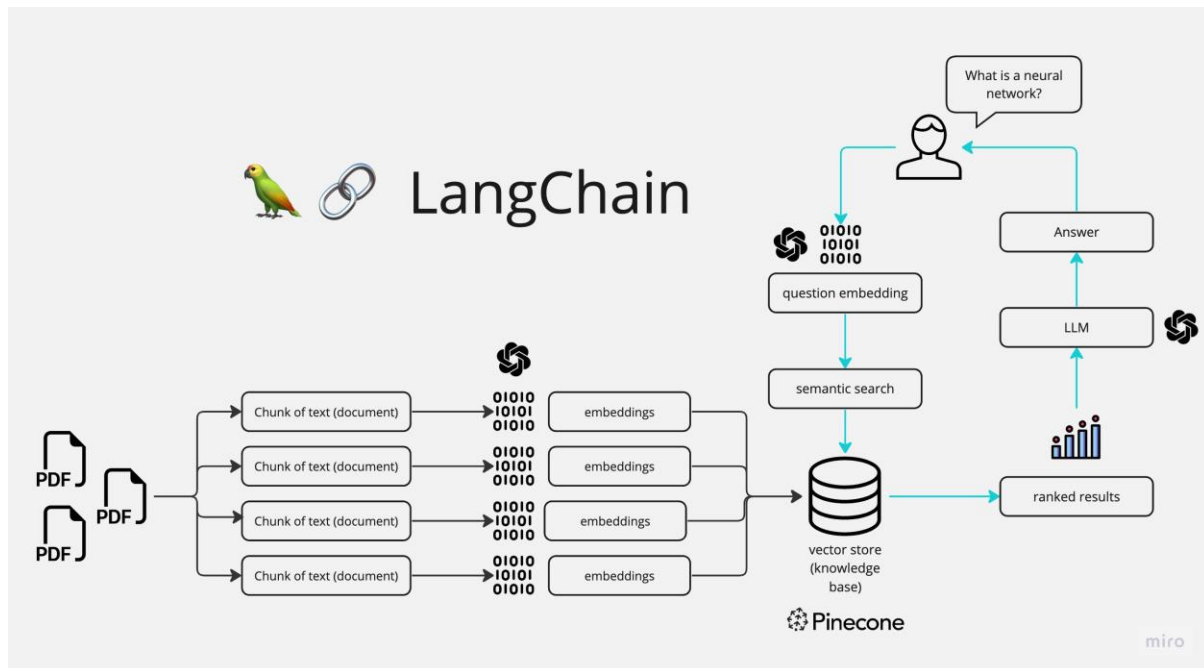


## How It Works



The application follows these steps to provide responses to your questions:

1. **PDF Loading:** The app reads multiple PDF documents and extracts their text content.
2. **Text Chunking:** The extracted text is divided into smaller chunks that can be processed effectively.
3. **Language Model:** The application utilizes a language model to generate vector representations (embeddings) of the text chunks.
4. **Similarity Matching:** When you ask a question, the app compares it with the text chunks and identifies the most semantically similar ones.
5. **Response Generation:** The selected chunks are passed to the language model, which generates a response based on the relevant content of the PDFs.

## Usage

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To use the Educational Initiatives ChatBot, follow these steps:

1. Ensure that you have installed the required dependencies and added the OpenAI API key to the .env file.
2. Run the main.py file using the Streamlit CLI. Execute the following command:
3. `streamlit run app.py`
4. The application will launch in your default web browser, displaying the user interface.
5. Load multiple PDF documents into the app by following the provided instructions.
6. Ask questions in natural language about the loaded PDFs using the chat interface.

## Requirements

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`langchain==0.0.184`

`PyPDF2==3.0.1`

`python-dotenv==1.0.0`

`streamlit==1.18.1`

`openai==0.27.6`

`faiss-cpu==1.7.4`

`altair==4`

`tiktoken==0.4.0`