Chat with PDF using Gemini AI - Setup Guide

Prerequisites

Before proceeding, ensure you have:

- Python 3.8+ installed

- pip (Python Package Manager)

Installation Steps

1. Set up a virtual environment (Optional but Recommended)

```
python -m venv venv

source venv/bin/activate  # macOS/Linux

venv\Scripts\activate  # Windows
```

2. Install required libraries:

```
pip install streamlit google-generativeai PyPDF2 fpdf
```

3. Obtain a Gemini AI API Key:

   - Visit https://aistudio.google.com/

   - Sign in and generate an API key

Configuring API Key

- Open the app.py file and replace API_KEY with your actual key:

```
API_KEY = "your_actual_api_key_here"
```

Running the Application

```
streamlit run app.py
```

Features

- Upload a PDF file

- Extract text from PDF

- Ask questions

- View chat history

- Download responses as a PDF

- Upload a new PDF

Troubleshooting

- Streamlit not found? Run: pip install streamlit

- API error? Check your key and internet connection

- PDF not extracting text? Ensure it has selectable text, not just images

Conclusion

Upload PDFs, ask questions, and download chat history using Gemini AI.