

## **Duratech AI MS Learning Assistant**

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**GitHub Repository:** <https://github.com/Hariprasad1742/Learning-Assistant>

**Hosted Link :** <https://duralearningassistant.streamlit.app/>

### **Overview:**

Duratech AI Learning Assistant is an Ai powered intelligent web application designed to assist learners with study materials. The platform allows users to upload PDF documents and interact with them using generative AI - to produce summaries, quizzes, flashcards, and ask questions with contextual understanding.

Built using Streamlit and powered by Groq's LLaMA 3 model, the assistant is a comprehensive tool for self-paced learning, revision, and content generation from raw educational materials.

### **Features:**

- PDF Upload & Text Extraction
- Summary Generator
- Notes Section
- Quiz & Flashcards Generator
- AI-Powered Q&A
- Export to PDF/Text

### **Tech Stack:**

- Streamlit (Frontend)
- PyMuPDF (PDF text extraction)
- Groq API (LLaMA 3 Model)
- FPDF (PDF Export)
- BeautifulSoup (HTML cleanup)
- Python (Core language)

## **Project Setup:**

### **1. Clone the repository:**

```
git clone https://github.com/Hariprasad1742/Learning-Assistant.git
```

### **2. Install dependencies:**

```
pip install -r requirements.txt
```

### **3. Add your Groq API key in .streamlit/secrets.toml**

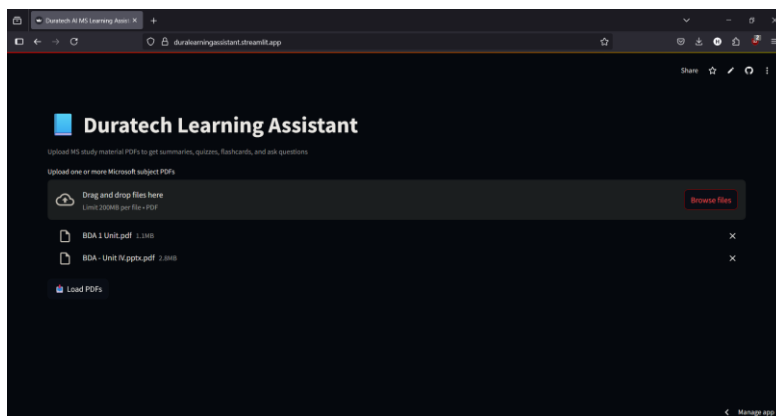
### **4. Run the app:**

```
streamlit run main.py
```

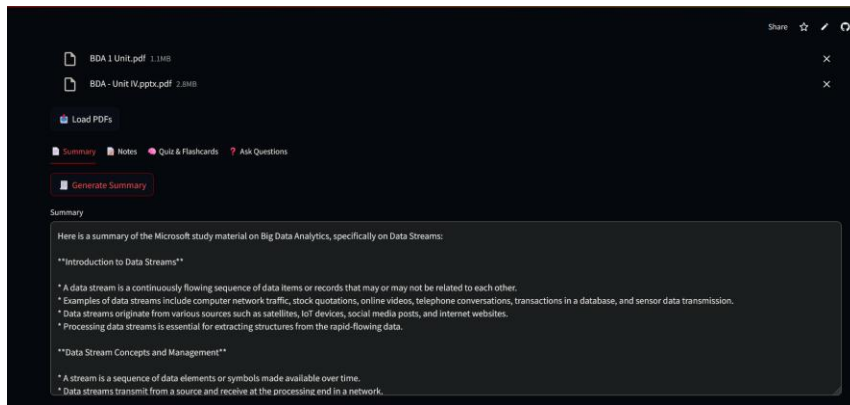
## **Working:**

- Upload PDFs -> Extracts text using PyMuPDF
- Summarize/Quiz/Flashcards -> AI-generated via Groq API
- Ask Questions -> Conversational answers with context
- Export -> Download generated content as PDF or TXT

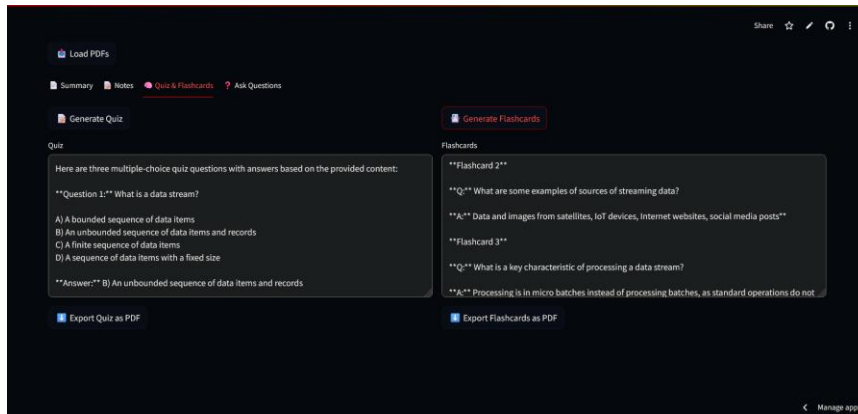
## **Visual Screenshots:**



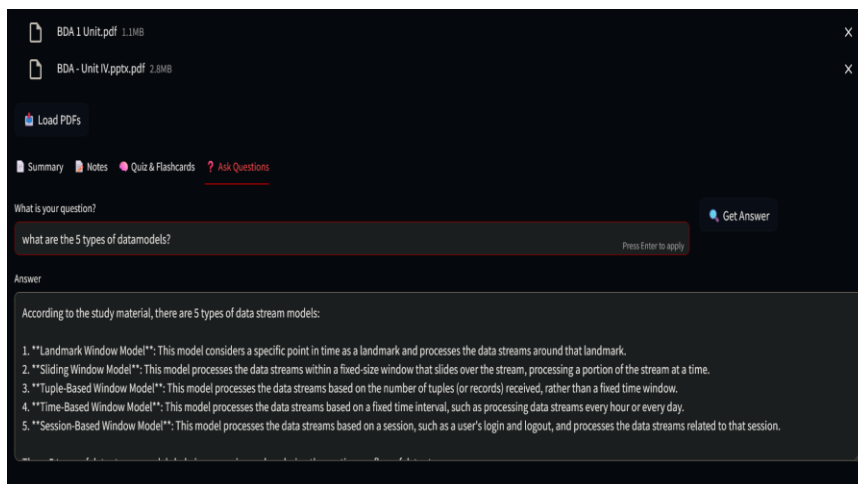
## Summary generation:



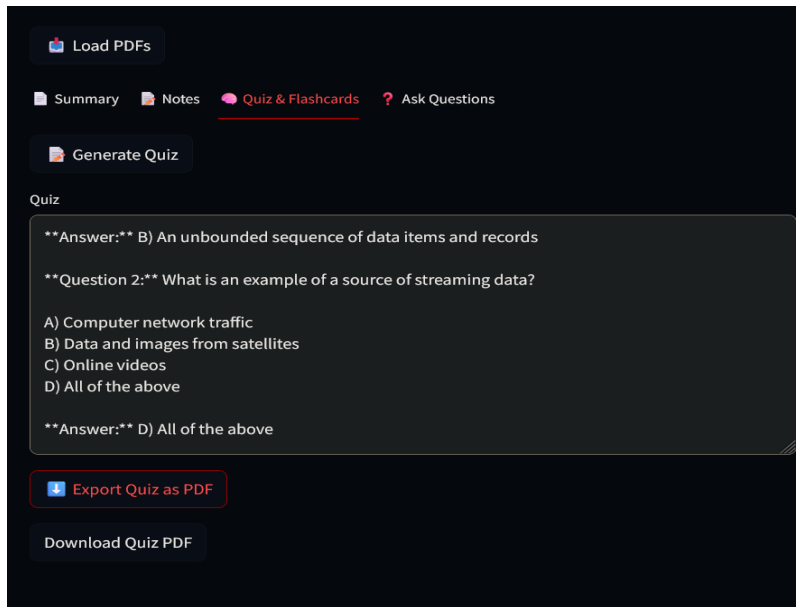
## Quiz and flash cards:



## Chat with pdf:



## **Download pdf option for summary, notes, quiz and flashcards:**



## **Contact:**

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