

AI Research Assistant - Backend Cheatsheet

Start the FastAPI backend:

```
cd backend
```

```
uvicorn main:app --reload
```

Test /upload endpoint using curl:

```
curl -X POST http://127.0.0.1:8000/upload \  
-F "file=@Profile.pdf"
```

Test /ask endpoint using curl:

```
curl -X POST http://127.0.0.1:8000/ask \  
-H "Content-Type: application/json" \  
-d '{  
  "messages": [  
    { "role": "system", "content": "You are a helpful assistant." },  
    { "role": "user", "content": "What is this document about?" }  
  ]  
'
```

Install backend requirements:

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

.env file format:

```
OPENAI_API_KEY=your_openai_key_here
```

Upload folder (auto-created):

```
backend/uploads/
```

RAG embedding location:

rag_utils.py handles PDF parsing and FAISS vector indexing