



IMPORTANT FILE SET UP PATH

Frontend setup guide

1. Frontend Instructions

1.1. Requirements

- Before running the project install Python 3.12 as Streamlit does not have 3.14 support

1.2 Navigate into project folder

- Open Terminal and run: cd ADVISOR PROJECT

1.3 Create a Virtual Environment

- In terminal: python -m venv streamlit-env
- Activate it: streamlit-env\Scripts\activate

1.4 Install dependencies

- pip install -r requirements.txt

1.6 Create a local env File

- In the project root, create: .env
- Add inside: DEEPSEEK_API_KEY=YOUR_API_KEY_HERE

1.7 Run the Streamlit App

- In terminal run: streamlit run app/app_frontend.py

2. Backend setup guide

2.1 runs locally

- The backend code runs inside Streamlit automatically
- Loads all csv/json from backend/datasets
- Load major requirements from /degree_requirements/
- Calls DeepSeek API through ai_engine

2.2 Testing the Backend

A. Course Eligibility Engine

1. Type in subject code (ECS, MAT, STA, etc.)
2. Type in completed courses(e.g., MAT 021A, STA 013)
3. Click “Check Eligibility”

B. Transcript reader

- Upload any PDF named Unofficial Transcript.pdf and click Process Transcript.

C. AI Chatbot

The chatbot depends on the completed courses square above the chatbot.

The chatbot allows

- Can I take ECS 036C
- What is ECS 036C about?
- What should I take after STA 141A?
- I like machine learning. Should I take STA 106 or STA 138?
- Give me a fun fact about ducks.(LLM fallback)
- Can I take STA 106?
- What do I need before taking ECS 036B?
- What are the prerequisites for STA 141A?
- What does STA 013 unlock?

(Answers also depend on what has been filled out in the completed course bubble)

3. Cost Summary

Component	Provider	Cost	Notes
DeepSeek API	DeepSeek	\$0.55 per 1M tokens	Free tier available
Total Cost	—	\$0-1	Reproduction typically fits within free tiers