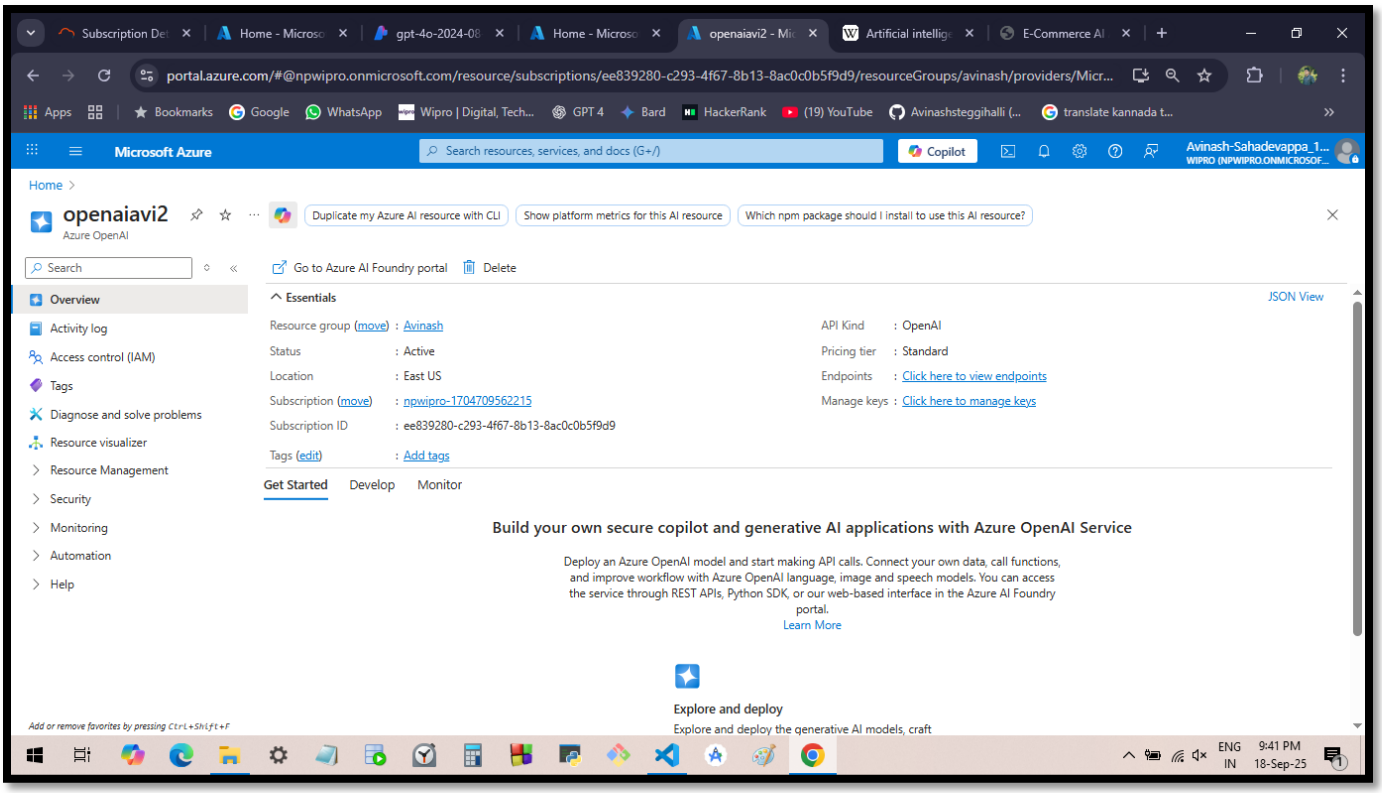
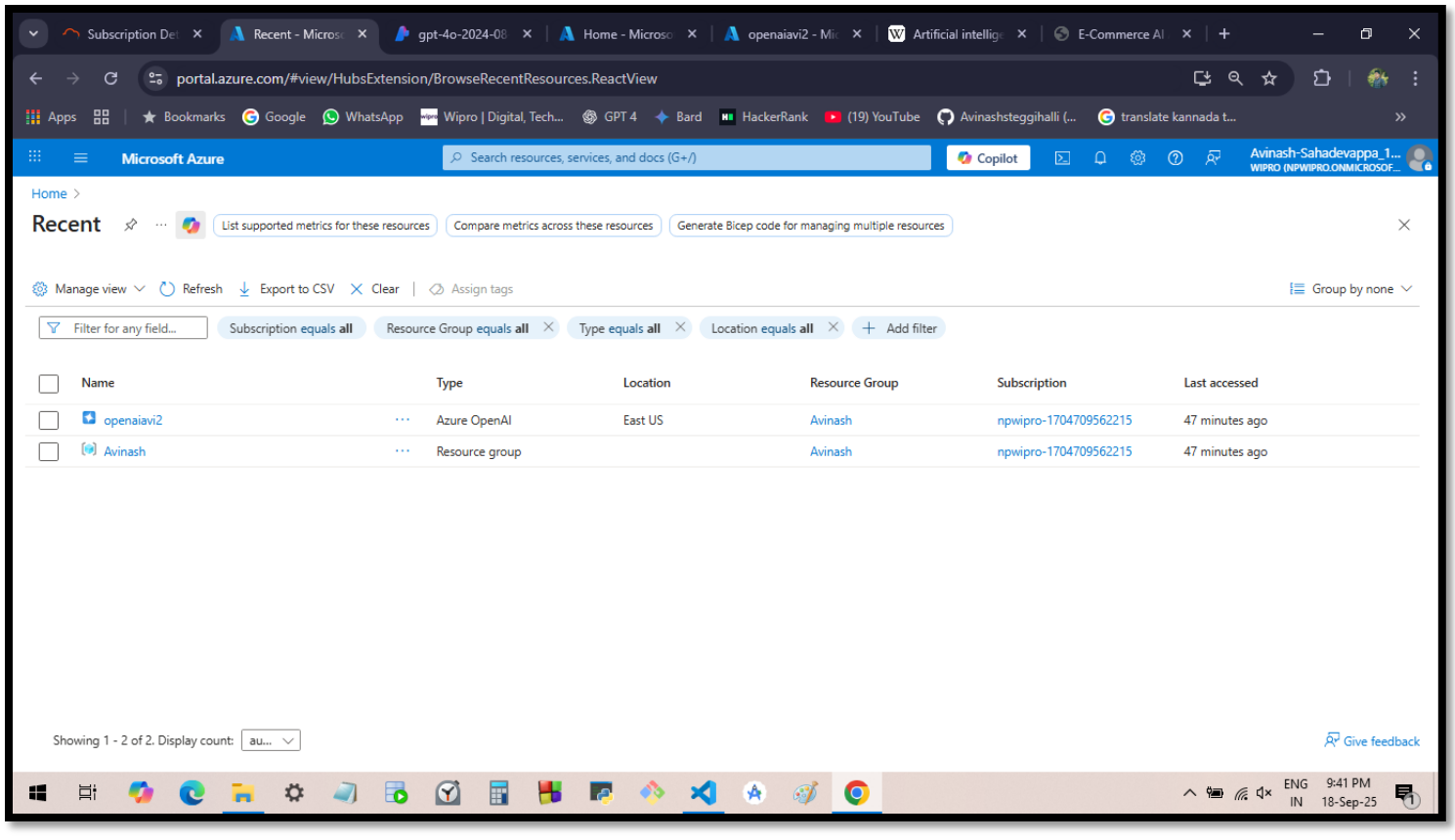
Capstone Project

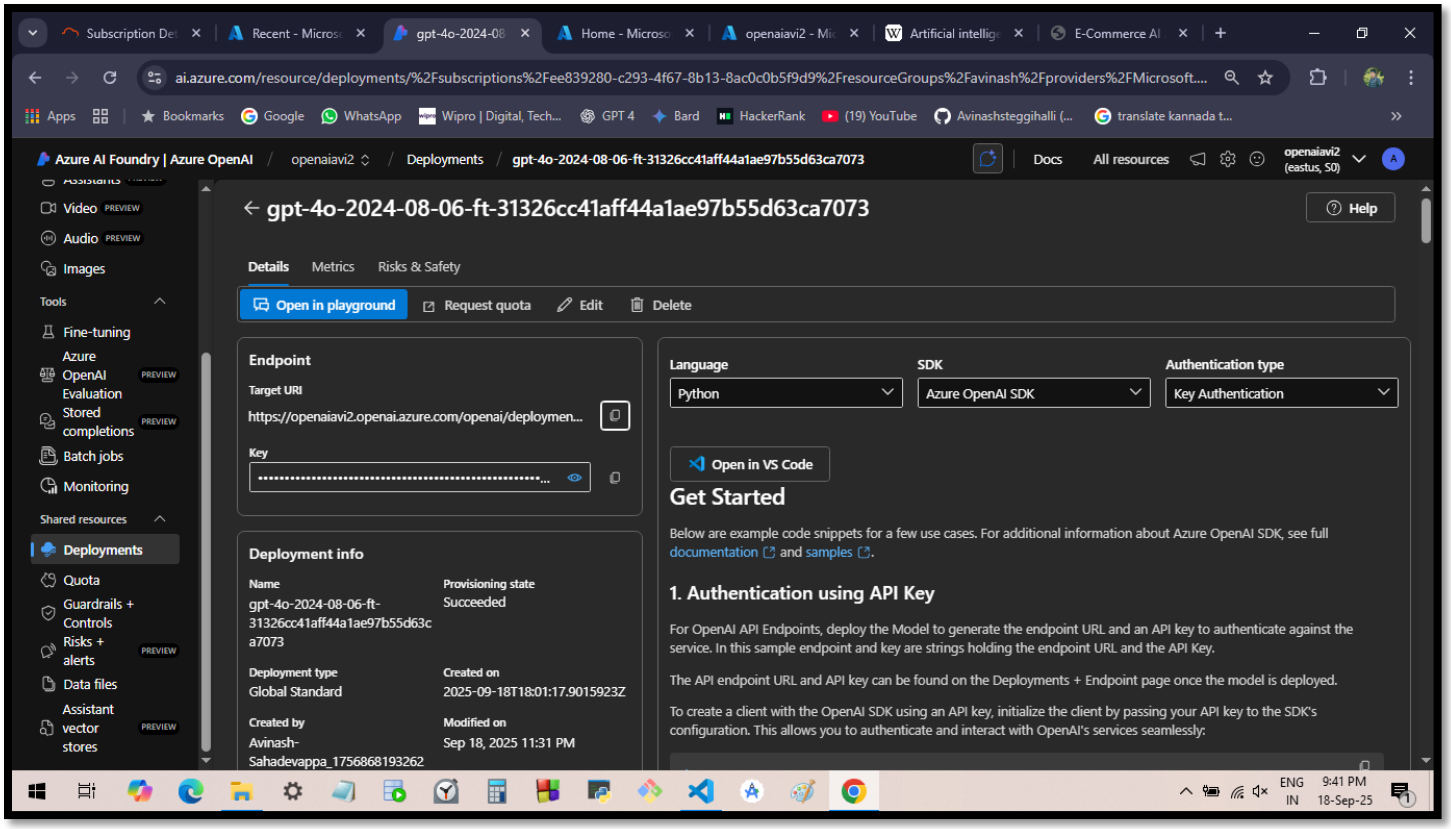
(Multimodel Generative AI E- Commerce Assistant)

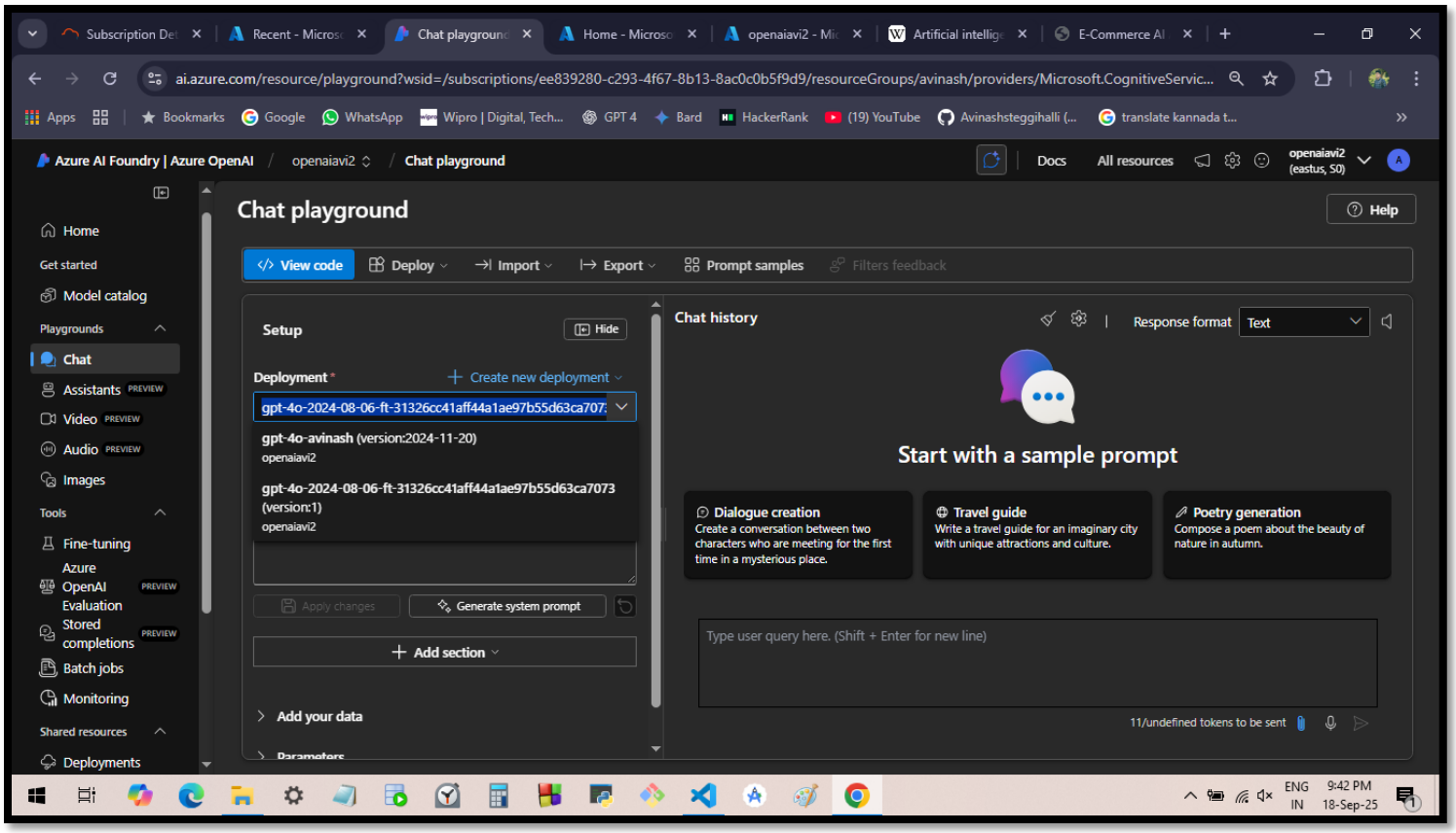
1. Azure Portal – Resource Setup

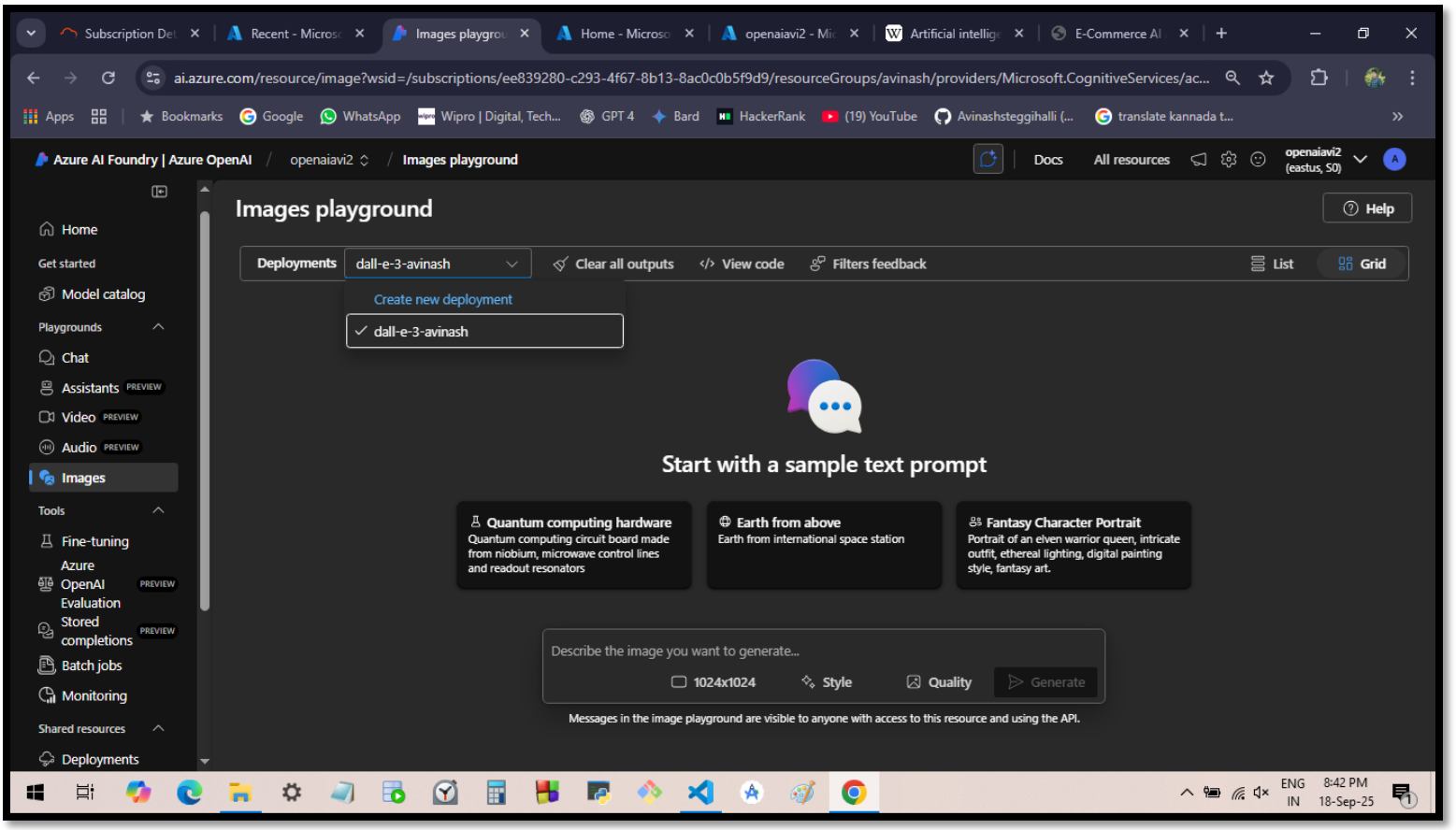




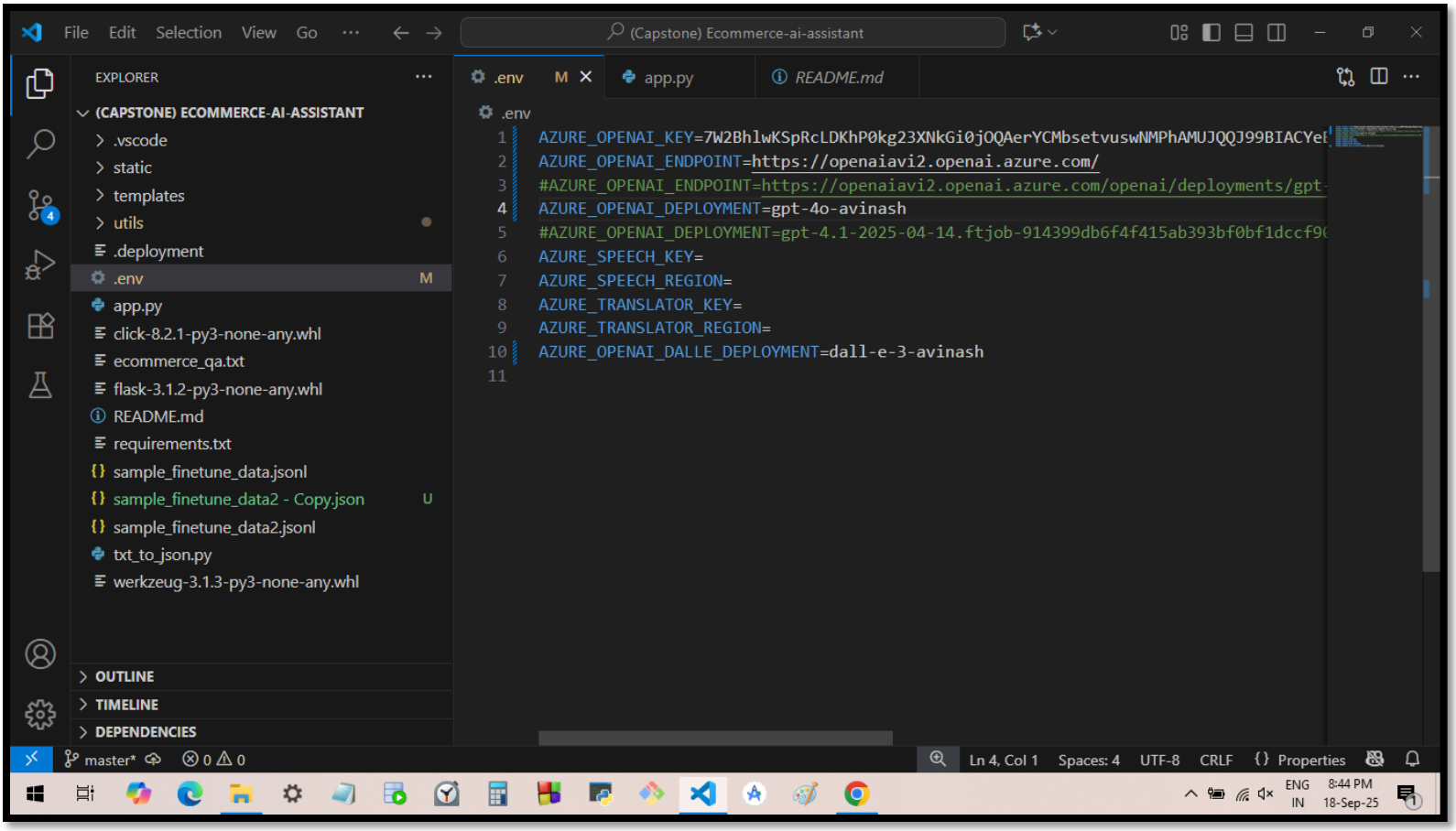
2. Azure OpenAI – Deployments



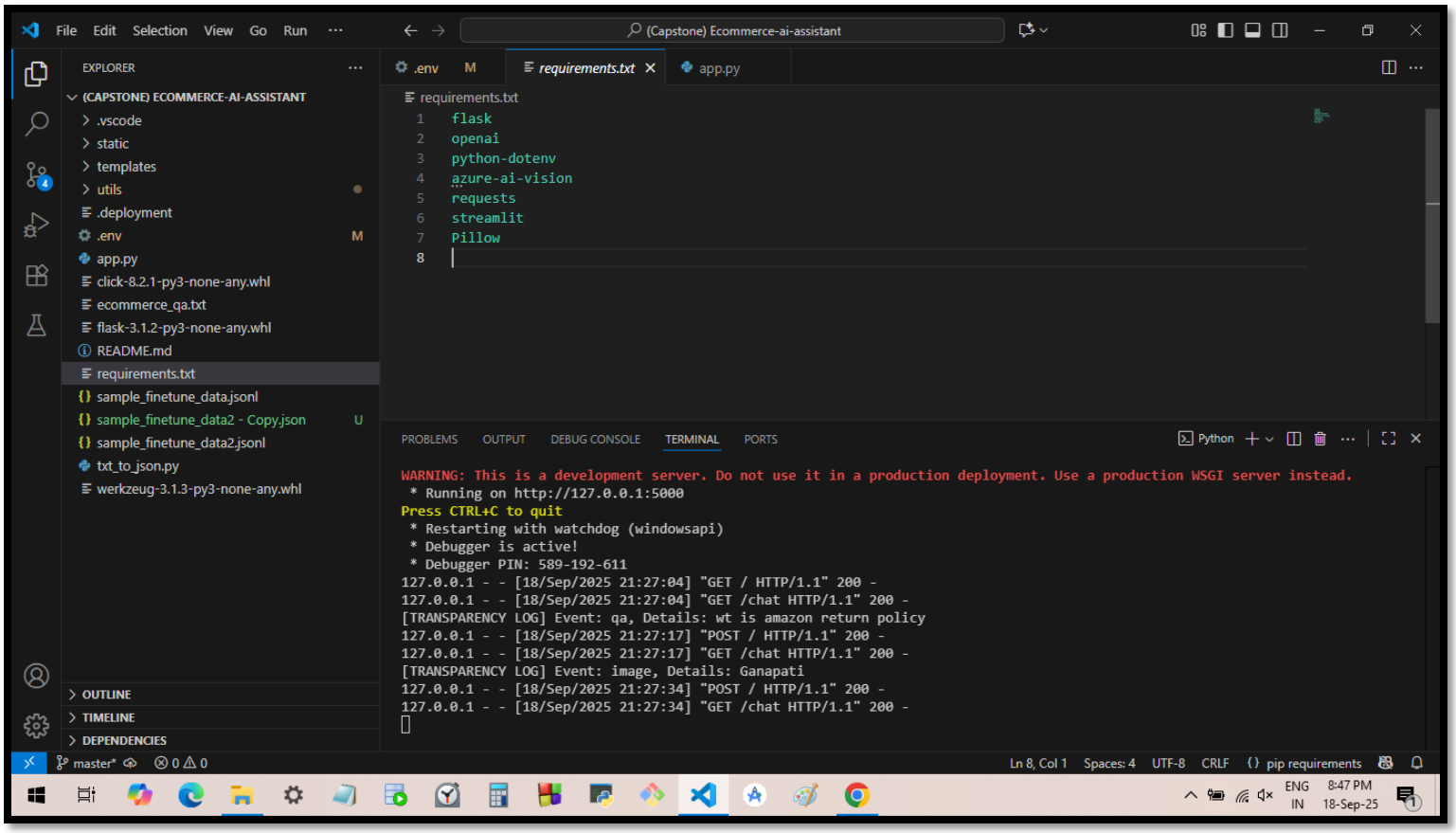



Azure AI Foundry | Azure OpenAI
openaiavi2
Images playground
Docs
All resources
Images playground
Help
Home
Get started
Model catalog
Playgrounds
Chat
Assistants PREVIEW
Video PREVIEW
Audio PREVIEW
Images
Tools
Fine-tuning
Azure OpenAI Evaluation PREVIEW
Stored completions PREVIEW
Batch jobs
Monitoring
Shared resources
Deployments
Deployments
dall-e-3-avinash
Clear all outputs
View code
Filters feedback
List
Grid
Create new deployment
dall-e-3-avinash
Start with a sample text prompt
Quantum computing hardware
Quantum computing circuit board made from niobium, microwave control lines and readout resonators
Earth from above
Earth from international space station
Fantasy Character Portrait
Portrait of an elven warrior queen, intricate outfit, ethereal lighting, digital painting style, fantasy art.
Describe the image you want to generate...
1024x1024
Style
Quality
Generate
Messages in the image playground are visible to anyone with access to this resource and using the API.

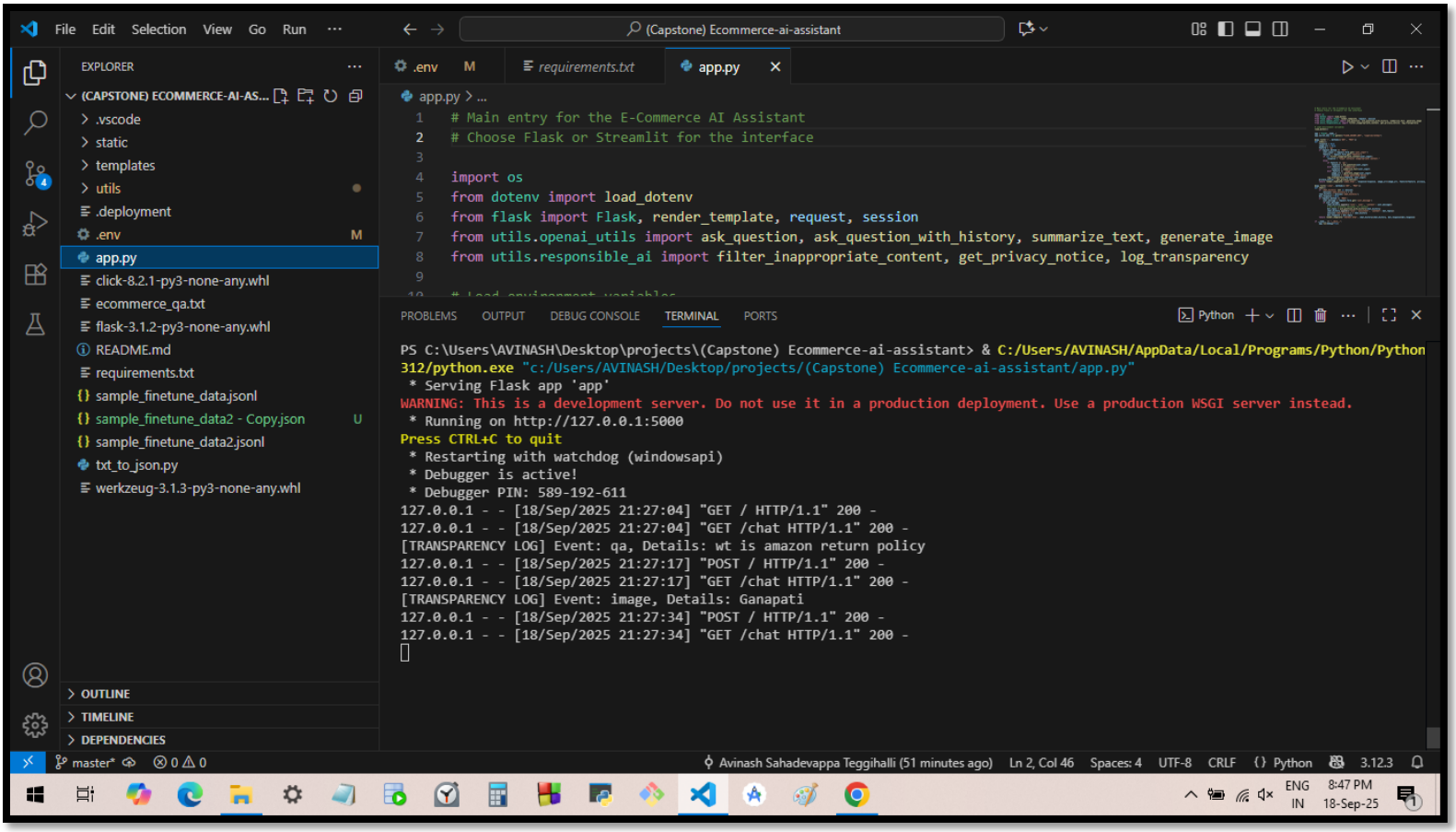
3. .env File Setup (Local Machine)



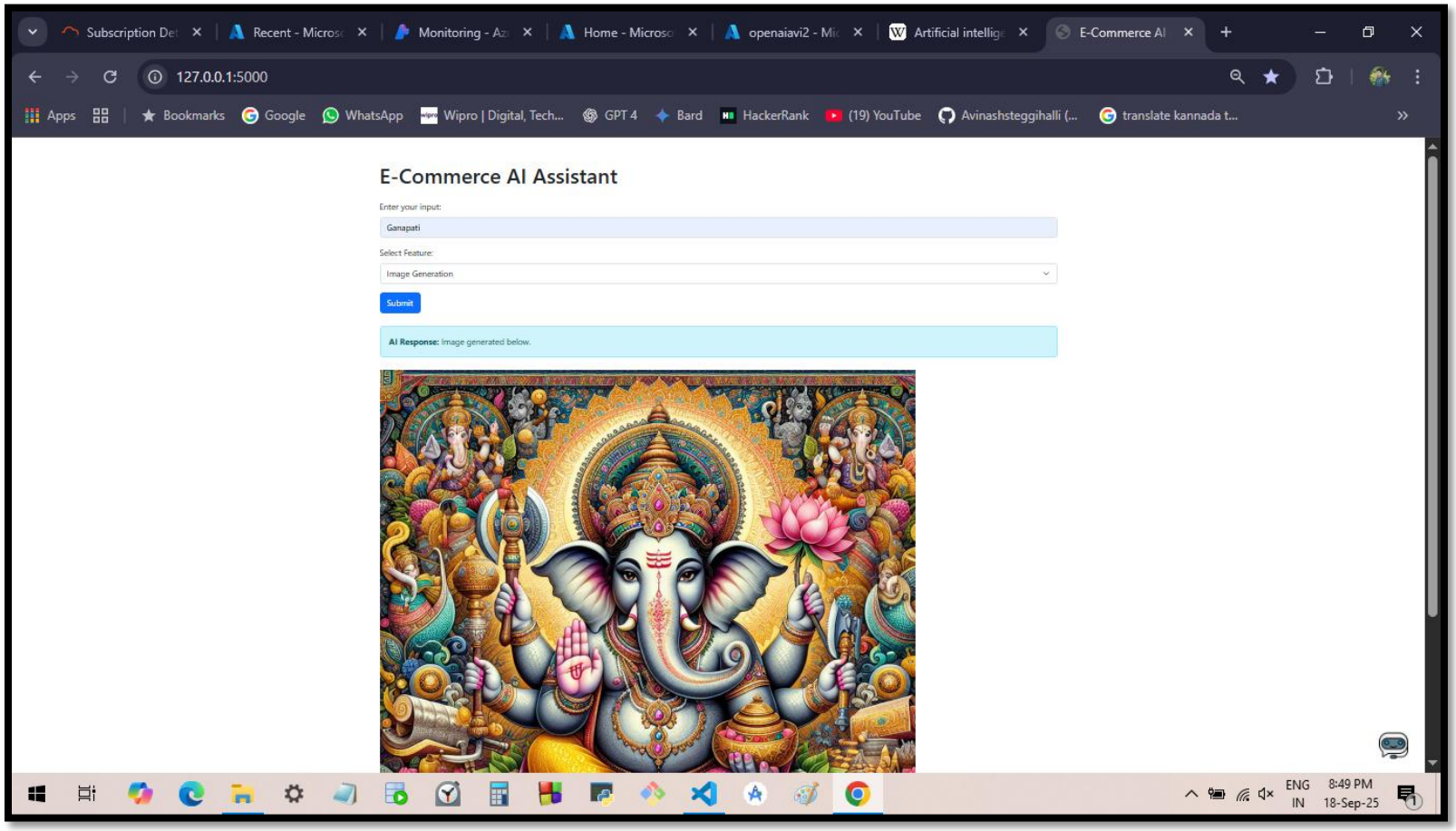
4. Dependencies Installation

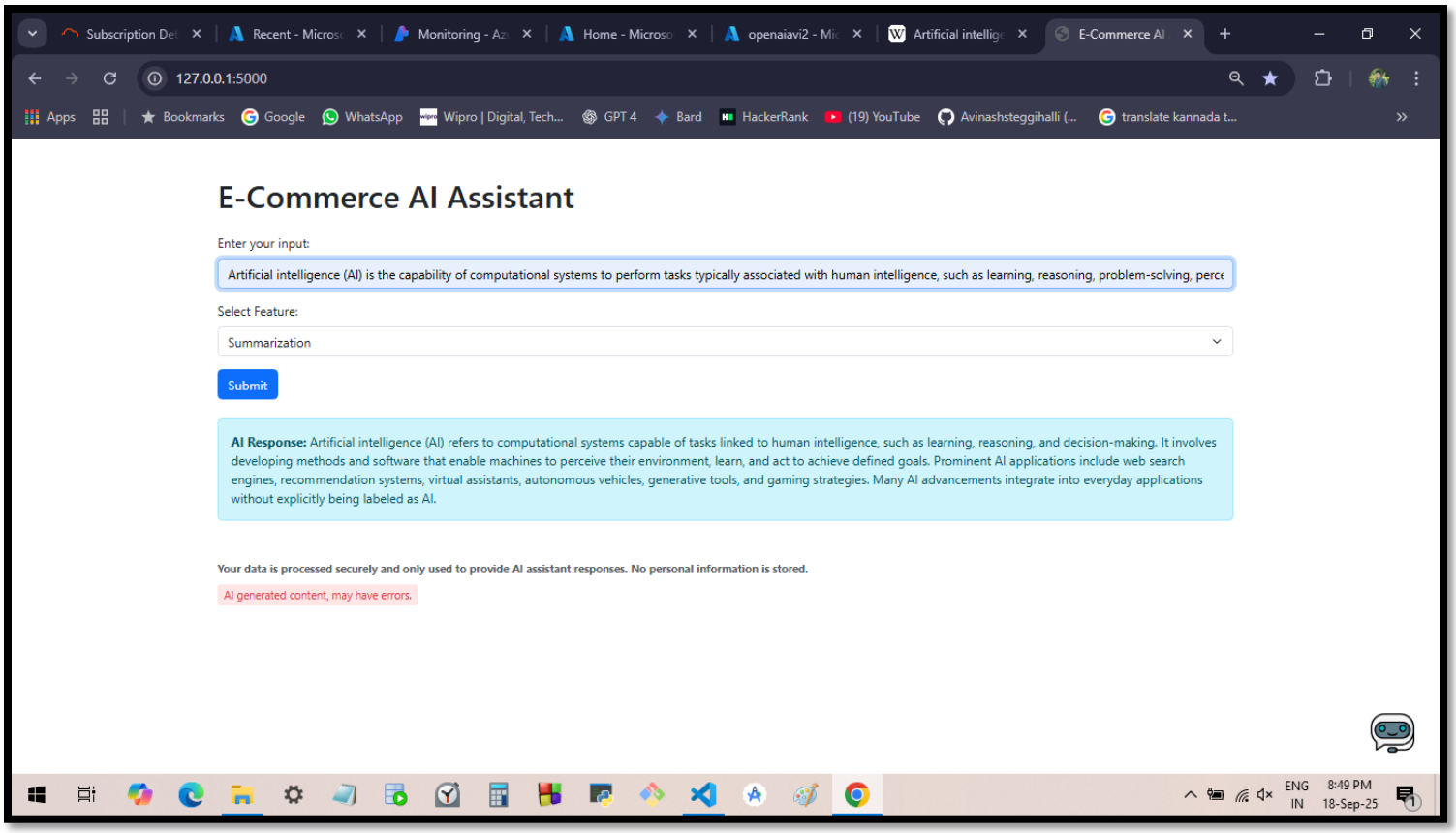


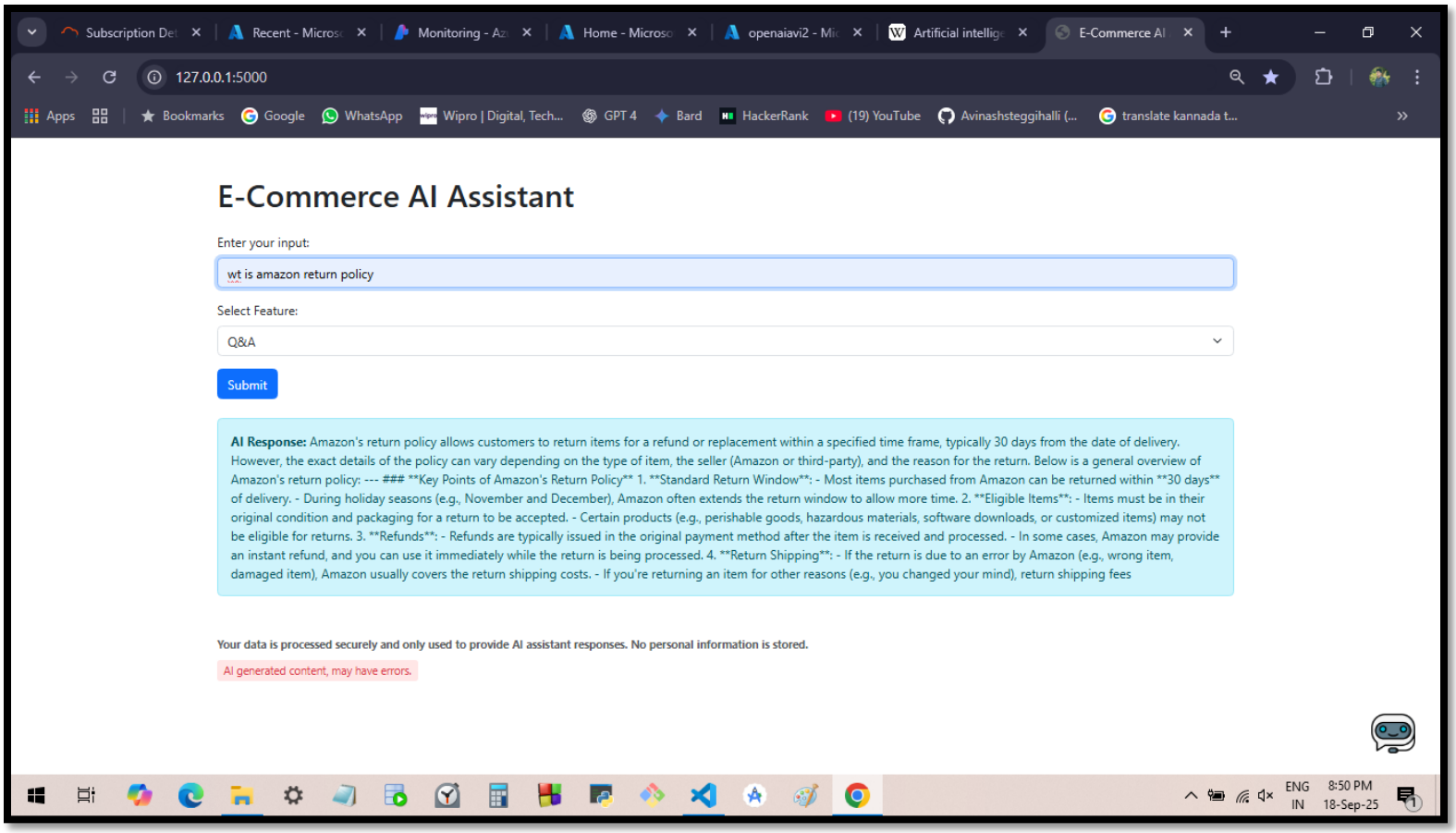
5. Running the App

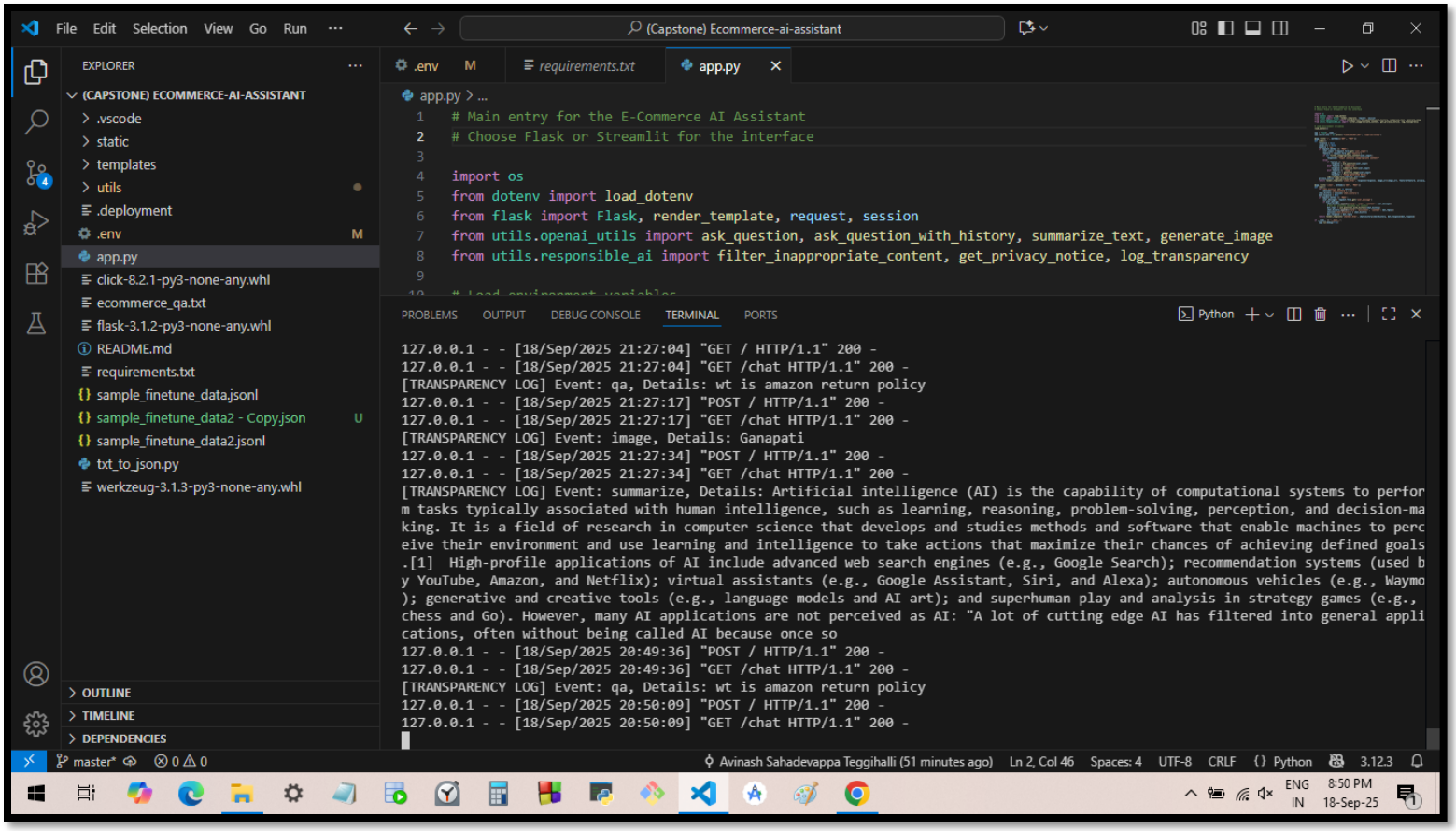


6. Web UI – Assistant in Action






E-Commerce AI
127.0.0.1:5000
E-Commerce AI Assistant
Enter your input:
wt is amazon return policy
Select Feature:
Q&A
Submit
AI Response: Amazon's return policy allows customers to return items for a refund or replacement within a specified time frame, typically 30 days from the date of delivery. However, the exact details of the policy can vary depending on the type of item, the seller (Amazon or third-party), and the reason for the return. Below is a general overview of Amazon's return policy: --- ### **Key Points of Amazon's Return Policy** 1. **Standard Return Window**: - Most items purchased from Amazon can be returned within **30 days** of delivery. - During holiday seasons (e.g., November and December), Amazon often extends the return window to allow more time. 2. **Eligible Items**: - Items must be in their original condition and packaging for a return to be accepted. - Certain products (e.g., perishable goods, hazardous materials, software downloads, or customized items) may not be eligible for returns. 3. **Refunds**: - Refunds are typically issued in the original payment method after the item is received and processed. - In some cases, Amazon may provide an instant refund, and you can use it immediately while the return is being processed. 4. **Return Shipping**: - If the return is due to an error by Amazon (e.g., wrong item, damaged item), Amazon usually covers the return shipping costs. - If you're returning an item for other reasons (e.g., you changed your mind), return shipping fees
Your data is processed securely and only used to provide AI assistant responses. No personal information is stored.
AI generated content, may have errors.


(CAPSTONE) ECOMMERCE-AI-ASSISTANT
app.py
# Main entry for the E-Commerce AI Assistant
# Choose Flask or Streamlit for the interface
import os
from dotenv import load_dotenv
from flask import Flask, render_template, request, session
from utils.openai_utils import ask_question, ask_question_with_history, summarize_text, generate_image
from utils.responsible_ai import filter_inappropriate_content, get_privacy_notice, log_transparency
127.0.0.1 - - [18/Sep/2025 21:27:04] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [18/Sep/2025 21:27:04] "GET /chat HTTP/1.1" 200 -
[TRANSPARENCY LOG] Event: qa, Details: wt is amazon return policy
127.0.0.1 - - [18/Sep/2025 21:27:17] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [18/Sep/2025 21:27:17] "GET /chat HTTP/1.1" 200 -
[TRANSPARENCY LOG] Event: image, Details: Ganapati
127.0.0.1 - - [18/Sep/2025 21:27:34] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [18/Sep/2025 21:27:34] "GET /chat HTTP/1.1" 200 -
[TRANSPARENCY LOG] Event: summarize, Details: Artificial intelligence (AI) is the capability of computational systems to perfor
m tasks typically associated with human intelligence, such as learning, reasoning, problem-solving, perception, and decision-ma
king. It is a field of research in computer science that develops and studies methods and software that enable machines to perc
eive their environment and use learning and intelligence to take actions that maximize their chances of achieving defined goals
.[1] High-profile applications of AI include advanced web search engines (e.g., Google Search); recommendation systems (used b
y YouTube, Amazon, and Netflix); virtual assistants (e.g., Google Assistant, Siri, and Alexa); autonomous vehicles (e.g., Waymo
); generative and creative tools (e.g., language models and AI art); and superhuman play and analysis in strategy games (e.g.,
chess and Go). However, many AI applications are not perceived as AI: "A lot of cutting edge AI has filtered into general appli
cations, often without being called AI because once so
127.0.0.1 - - [18/Sep/2025 20:49:36] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [18/Sep/2025 20:49:36] "GET /chat HTTP/1.1" 200 -
[TRANSPARENCY LOG] Event: qa, Details: wt is amazon return policy
127.0.0.1 - - [18/Sep/2025 20:50:09] "POST / HTTP/1.1" 200 -
127.0.0.1 - - [18/Sep/2025 20:50:09] "GET /chat HTTP/1.1" 200 -