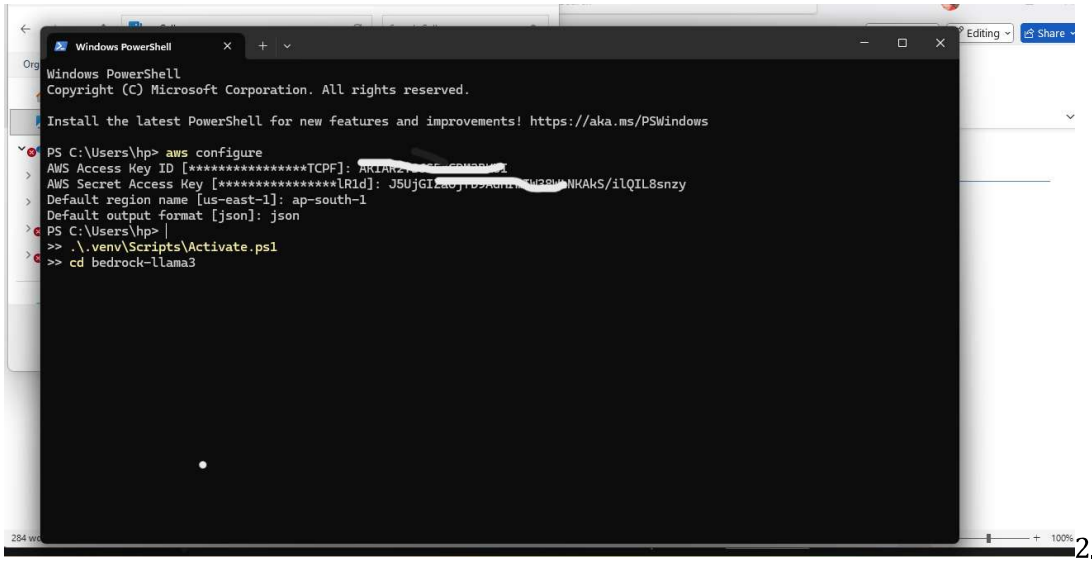
Deploying and Using AWS Bedrock

1. Prerequisites

- An AWS account with administrative access.
- Install AWS CLI:
  pip install awscli
  aws configure
- Provide AWS Access Key ID, Secret Key, and region (e.g., us-east-1).
- Python 3.9+ or another supported runtime.

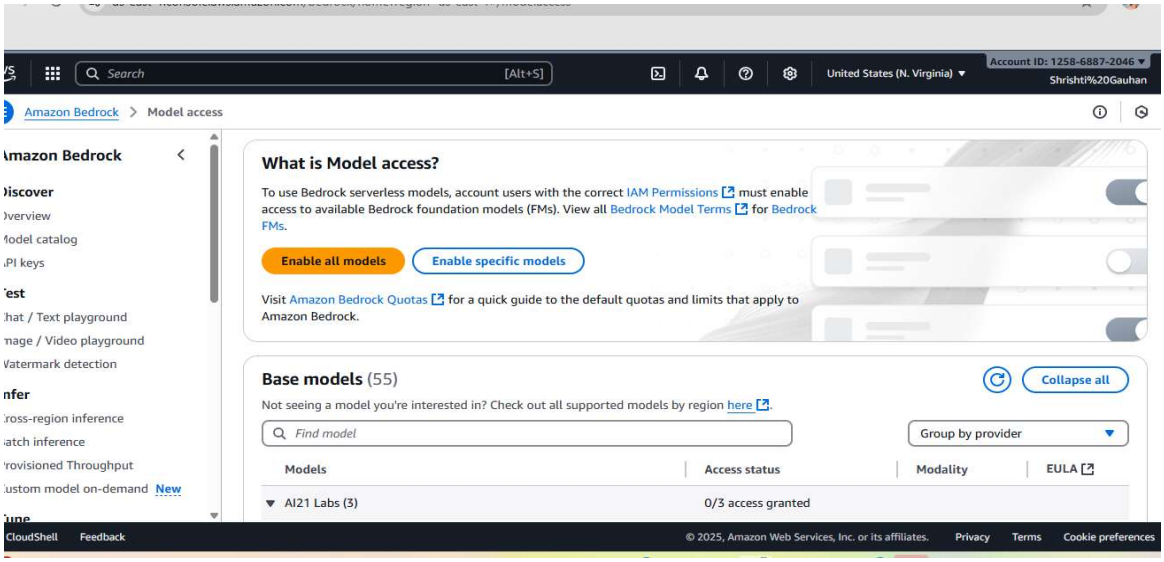


2.

2.Enable Bedrock in Your Account

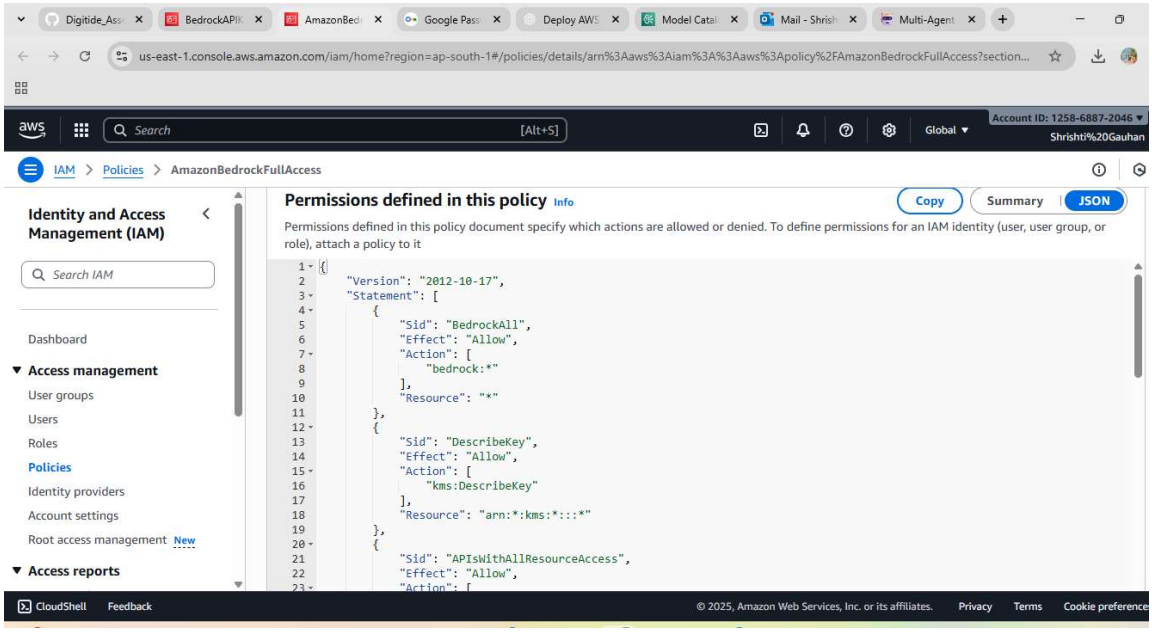
1. Go to AWS Bedrock Console.
2. Enable Model : AWS gives you a list of available foundation models (FMs) like:
   - **Anthropic Claude** (chat & reasoning)
   - **Meta Llama** (open-weight LLMs)
   - **Mistral** (lightweight, fast models)
   - **AI21 Jurassic** (text generation)
   - **Amazon Titan** (text & embeddings)

- You can **choose which models you want to use.**
- **Request Access** →For some models, AWS requires you to click **"Request model access".**

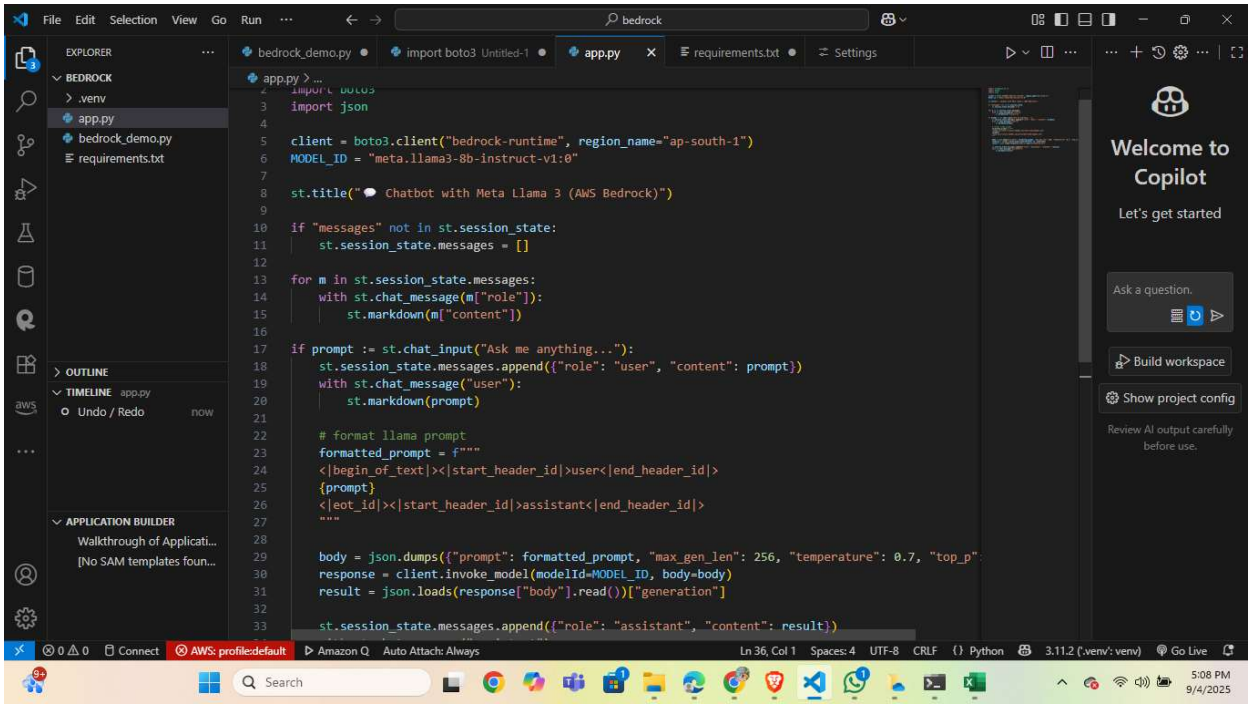


3. Set IAM Permissions

Create a policy with permissions for Bedrock and attach to IAM user/role. Example policy:

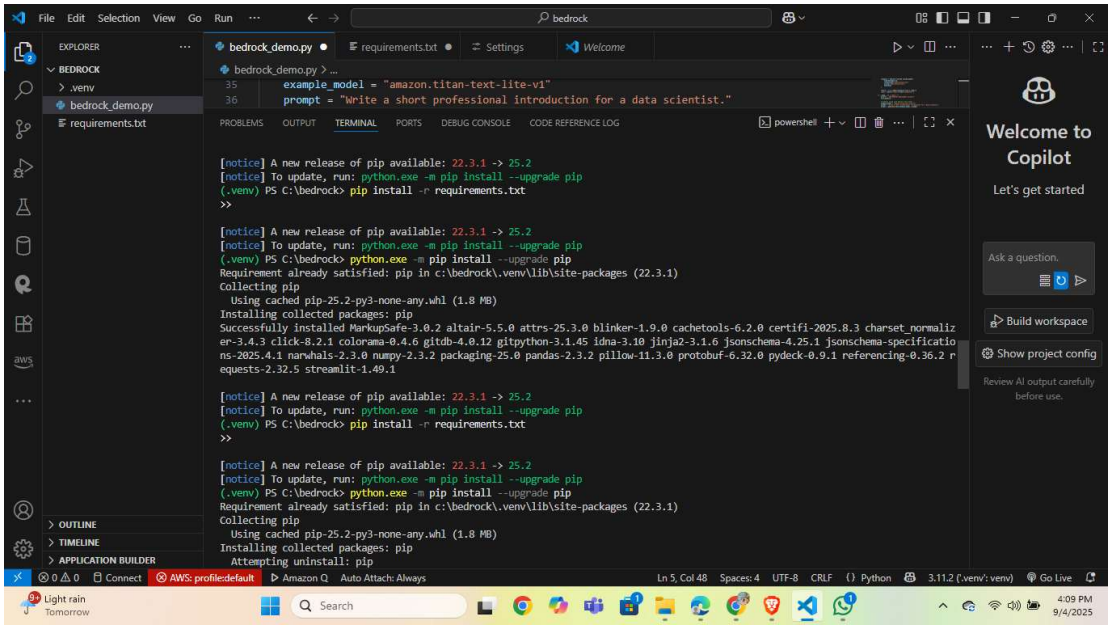


4. Integrate with Python

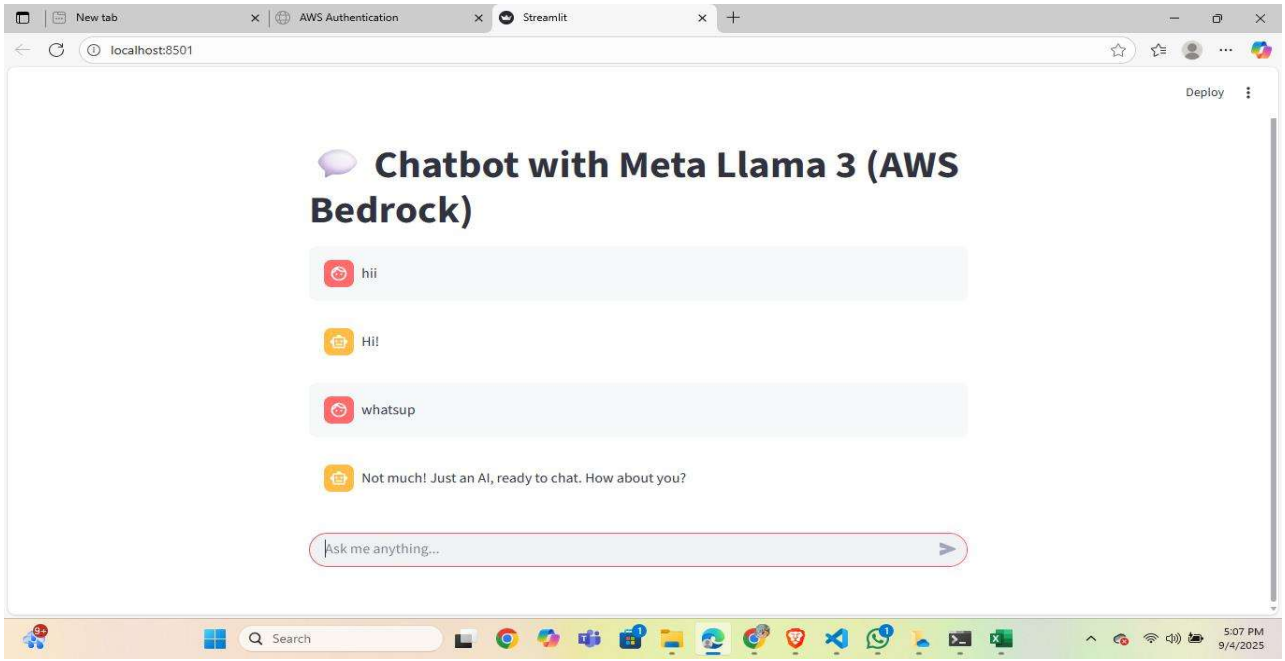


5. Deploy in Your Application

- Streamlit app (chatbot / RAG system)
- SageMaker pipelines (enterprise AI)
- Serverless with AWS Lambda



6. Result


New tab
AWS Authentication
Streamlit
localhost:8501
Deploy
Chatbot with Meta Llama 3 (AWS Bedrock)
hii
Hi!
whatsup
Not much! Just an AI, ready to chat. How about you?
Ask me anything...
Search
5:07 PM
9/4/2025