Tech Stack:

1. Groq -> LLM
2. Tavily -> Online Search Tool
3. LangChain -> Generative AI Framework to interact with LLM
4. LangGraph -> Agentic AI Framework to make AI agents
5. FastAPI -> To build backend APIs for handling user requests
6. Streamlit -> To make UI or frontend of the app
7. Docker -> For containerization of the app during deployment
8. SonarQube -> To check your code for bugs, security issues, and bad practices. Its like a evaluator of your app.
9. Jenkins -> For making CI/CD Pipelines

* Basically you’ll be copying your code from the GitHub.
* Inside Jenkins, you will create a Docker image using that DockerFile that you created.
* Then you will push that Docker Image to your AWS Elastic Container Registry (ECR), where you can store the images.
* From ECR, we will deploy it to our AWS Elastic Container Service (ECS) Fargate.
* On the ECS Fargate you can run your Docker application.
* From the Docker image, you will deploy your application to the ECS Fargate.
* This whole thing will be connected using Jenkins using a CI/CD Pipeline.

1. AWS ECS Fargate -> To deploy and run your app on the cloud without managing servers. It’s a service offered by AWS.
2. GitHub -> It will work as a SCM for your project.