

Project-Github-Link: <https://github.com/sunnysavita10/ecommerce-prod-assistant>

These are all the commands that you need to run on your command prompt

1. Write Python in your terminal
2. If you have Python, then no need to install it
3. `uv --version`
4. If you are not able to get the version
5. `Pip install uv`
6. `import shutil`
7. `print(shutil.which("uv"))`
- 8.
9. `uv init <my-project-name>`
10. `uv pip list`
- 11.
12. `uv python list`
13. `uv venv env --python`  
`cpython-3.10.18-windows-x86_64-none`
14. `uv venv <your-env-name> --python`  
`<your-python-version>`
15. Note: Please use either 3.10, 3.11, or 3.12
16. **Command Prompt (CMD)**  
`.\<your-env-name>\Scripts\activate.bat`
17. **Git Bash ya WSL terminal, or MAC Terminal:**
  - a. `source <your-env-name>/Scripts/activate`
  - b.
18. If your git is asking for a login to publish the repo, execute the command below

`ECR_REGISTRY=<account-id>.dkr.ecr.<aws_region>.amazonaws.com`

- c. git config --global user.name "Your Name"
  - d. git config --global user.email  
    "[your-email@example.com](mailto:your-email@example.com)"
19. UV add <package\_name>
  20. Uv add -r requirements.txt
  21. Streamlit run <give your streamlit python filename>
  22. Install the live server extension in VS Code for testing the HTML

For accessing the DataStax, here is a link:

<https://accounts.datastax.com/session-service/v1/login>

Vectordb Comparison:

<https://superlinked.com/vector-db-comparison>

Once you log in to the DataStax Vector page, you will get the following page

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Create database

ESC X

Serverless (vector)

An all-in-one database solution, optimized for Vector and Generative AI workloads

Serverless (non-vector)

A more traditional database solution without any of our new vector capabilities

Database name \*

db\_name

Give it a memorable name – this can't be changed later.

Provider \*

Google Cloud

Amazon Web Services

Microsoft Azure

Region \*

Select a region

Cancel

Create database

ECR\_REGISTRY=<account-id>.dkr.ecr.<aws\_region>.amazonaws.com

For running the streamlit UI, the command is:

```
streamlit run <file_path_of_streamlit_python_file>
```

For installing your prod\_assistant as a package use the .toml file

For install the package through the toml file here is a command

```
Uv pip install -e .
```

Or mention -e . in th requirements.txt and run the command

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

(NOTE: Same thing we can do with the [setup.py](#) file and we have already done it in the previous project)

**Command for executing the fastapi:**

```
uvicorn prod_assistant.router.main:app --reload --port 8000
```

Command for running the streamlit app

```
Stream run <your_file_name.py>
```

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Step to the run the application:

1. First run the mcp server:

```
D:\complete_content_new\llmops-batch\ecomm-prod-assistant\prod_assistant\mcp_servers\product_search_server.py
```

2. If you want to test your application you can in two ways

First: with [client.py](#) file

Second: from agentic workflow

Note: use the latest workflow:

```
D:\complete_content_new\llmops-batch\ecomm-prod-assistant\prod_assistant\workflow\agentic_workflow_with_mcp_websearch.py
```

Note: please use your system path not mine

3. Now after testing run the application from api and test it via ui your application will be running on this url

<http://127.0.0.1:8000/>

```
uvicorn prod_assistant.router.main:app --reload --port 8000
```

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```
docker ps      # running containers check karne ke liye
docker stop <container_id>
docker rm <container_id>
docker images  # images list check karne ke liye
docker rmi <image_id>
```

### *Build Docker Image*

Use this command: `docker build -t prod-assistant .`

### *Run Docker Container*

```
docker run -d -p 8080:8080 --name <container_custon_name>
<give image name which you have created using dockerfile>
```

Use this command:

```
docker run -d -p 8000:8000 --name product-assistant prod-assistant
```

```
${{ secrets.AWS_ACCESS_KEY_ID }}
${{ secrets.AWS_SECRET_ACCESS_KEY }}
${{ secrets.AWS_REGION }}
${{ secrets.ECR_REGISTRY }}
${{ secrets.ECR_REPOSITORY }}
${{ secrets.EKS_CLUSTER_NAME }}
${{ secrets.GROQ_API_KEY }}
${{ secrets.GOOGLE_API_KEY }}
${{ secrets.ASTRA_DB_API_ENDPOINT }}
${{ secrets.ASTRA_DB_APPLICATION_TOKEN }}
${{ secrets.ASTRA_DB_KEYSPACE }}
```

Keep the scerates without the double quote

```
ECR_REGISTRY=<account-id>.dkr.ecr.<aws_region>.amazonaws.com
```

Link for downloading the aws CLI:

<https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html>

```
C:\Users\Sunny>doskey /history
aws
aws configure
aws eks update-kubeconfig --name product-assistant-cluster-latest --region us-west-1
kubectl get nodes
kubectl get svc -o wide
kubectl describe svc product-assistant-service
kubectl get pods -o wide
kubectl exec -it product-assistant-776b47db47-tp4jb -- curl http://localhost:8000
kubectl logs product-assistant-776b47db47-tp4jb
doskey /history

C:\Users\Sunny>

C:\Users\Sunny>
```

Once deployment is done then after for getting all the details through your CLI you need to execute some important commands

Aws eks update-kubeconfig --name <eks-cluster-name> --region  
<write\_aws\_region>

Kubectl get nodes  
Kubectl get svc -o wide  
aws  
aws configure

aws eks update-kubeconfig --name product-assistant-cluster-latest --region  
us-west-1

kubectl get nodes  
kubectl get svc -o wide  
kubectl describe svc product-assistant-service  
kubectl get pods -o wide

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```
kubectl logs <write_your_pod_id>
```

```
doskey /history
```

```
ECR_REGISTRY=<account-id>.dkr.ecr.<aws_region>.amazonaws.com
```