

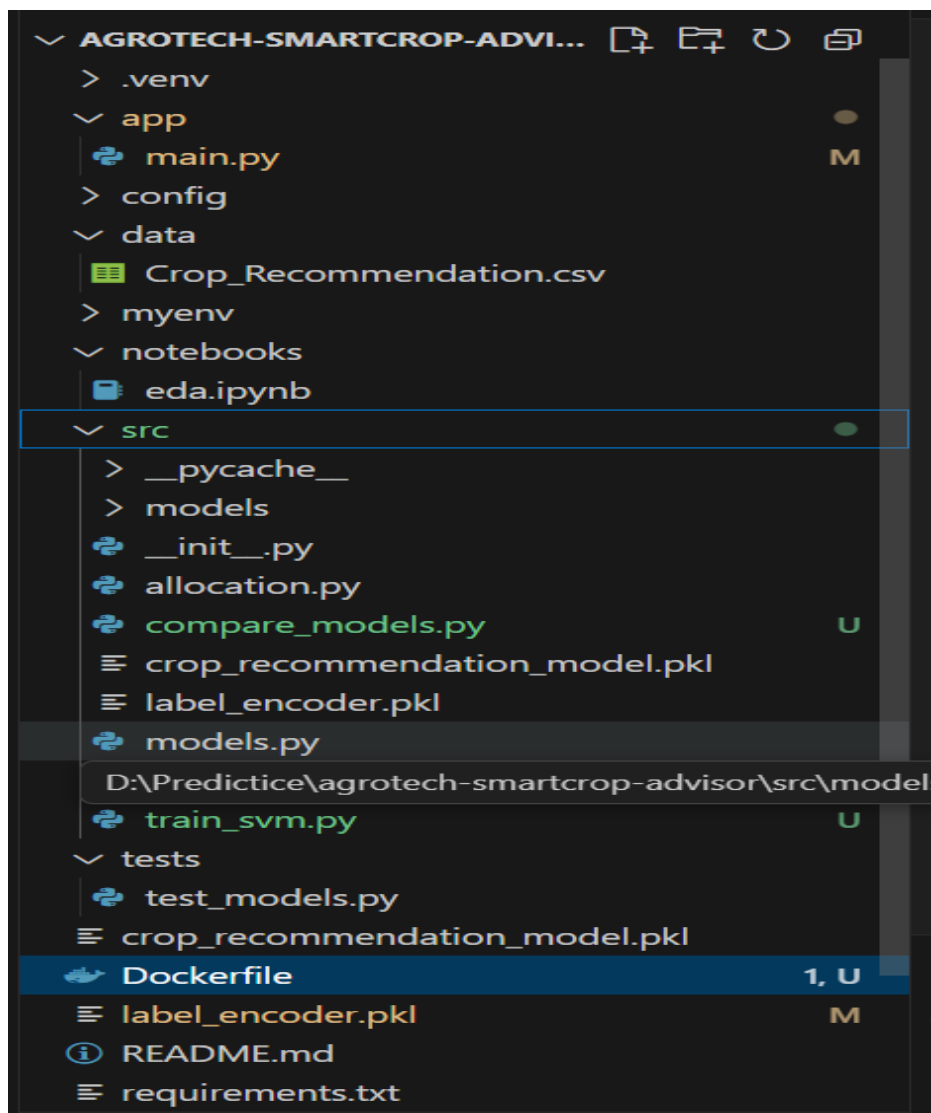
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Docker Demonstration

I have a Web application which was created using Streamlit in python. In this Activity I'm going to containerise the web application using Docker.

Project Structure:



DockerFile:

FROM python:3.10-slim

```
WORKDIR /app
```

COPY . /app

```
RUN pip install --no-cache-dir -r requirements.txt
```

EXPOSE 8501

```
ENV STREAMLIT_SERVER_HEADLESS=true
```

```
ENV STREAMLIT_SERVER_ENABLECORs=false
```

ENV STREAMLIT SERVER PORT=8501

```
CMD ["Streamlit", "run", "app/main.py"]
```

Terminal Commands:

[illegible]

```
PS D:\Predictice\agrotech-smartcrop-advisor> docker run -d -p 8501:8501 --name smartcrop agrotech-smartcrop-advisor
a3254ad74bafad2dc49747176d42fac27612bbdc9e2b4cb4e13804565094e3258
```

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS JUPYTER
p-advisor:latest
>>
PS D:\Predictice\agrotech-smartcrop-advisor> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
hariprasathr24/agrotech-smartcrop-advisor latest 607660101a34 10 minutes ago 1.36GB
agrotech-smartcrop-advisor latest 607660101a34 10 minutes ago 1.36GB
ubuntu latest 66460d557b25 4 weeks ago 117MB
hello-world latest 56433a6be3fd 2 months ago 20.3kB
PS D:\Predictice\agrotech-smartcrop-advisor> docker push hariprasathr24/agrotech-smartcrop-advisor:latest
>>
The push refers to repository [docker.io/hariprasathr24/agrotech-smartcrop-advisor]
0c14a5bb2d51: Pushed
964059bea34a: Pushed
03b7f5f69b04: Pushed
a09dc670095e: Pushed
215d230d1553: Pushed
c3eb7d6d81a7: Pushed
d7ecd7702a: Pushed
cfba6d6670cc: Pushed
latest: digest: sha256:607660101a34a0e8d074ce3c4267394fe6210d046aee2b4f6fdbf66c726de6cc size: 856
PS D:\Predictice\agrotech-smartcrop-advisor>

```

Link for image in DockerHub:

<https://hub.docker.com/r/hariprasathr24/agrotech-smartcrop-advisor>

Docker desktop:

