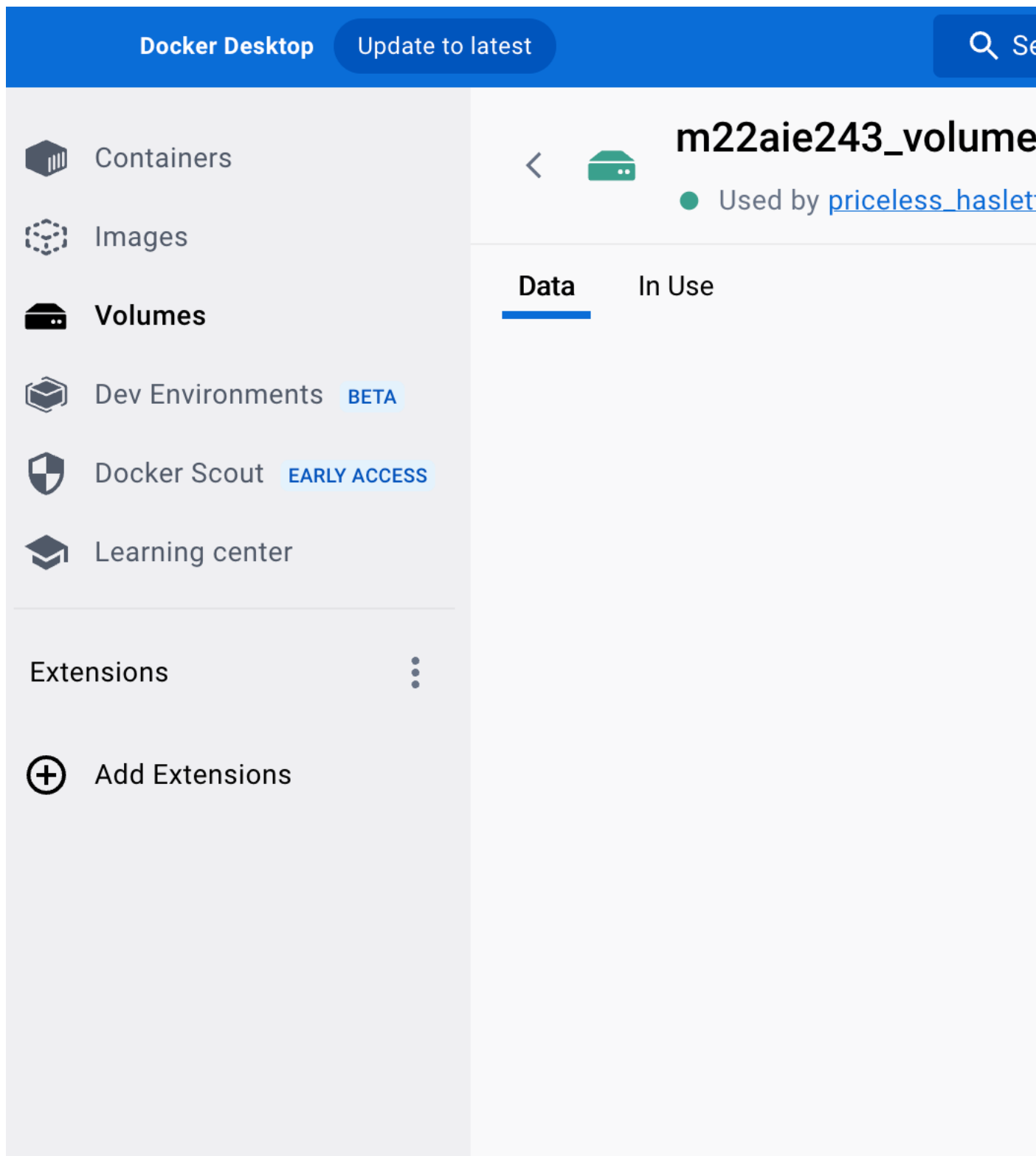# Docker_assigment4:

Question 5 : Upload the screenshot showing output of `ls -lh models` on wsl, before and after executing the container; i.e. before -- the models dir should be empty, and after -- it should have models. A reference image is given below.

My answers are from Mac book air so it may differ little as compared to windows.

Before Training and saving model to volume.

```
[(ml_env) kumarroushan@kumars-MacBook-Air ~ % docker run -it --rm -v m22aie2
Unable to find image 'busybox:latest' locally
latest: Pulling from library/busybox
8a0af25e8c2e: Pull complete
Digest: sha256:3fbc632167424a6d997e74f52b878d7cc478225cffac6bc977eedfe51c7
Status: Downloaded newer image for busybox:latest
[/ # cd /app/model
[/app/model # ls -lh
total 0
/app/model #
```

No Model trained and saved in volume.

Docker Desktop Update to latest

- Containers
- Images
- **Volumes**
- Dev Environments BETA
- Docker Scout EARLY ACCESS
- Learning center

Extensions

- Add Extensions

m22aie243_volume

Used by priceless_haslet

Data   In Use

Model training and saving it to docker volume

```
[(ML_env) kumarroushan@kumars-MacBook-Air digit-classification % docker bui
[+] Building 29.7s (11/11) FINISHED                          docker:desktop-
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 834B
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load metadata for docker.io/library/python:3.8-slim
 => [auth] library/python:pull token for registry-1.docker.io
 => [1/5] FROM docker.io/library/python:3.8-slim@sha256:9187d27fd8f222a18
 => [internal] load build context
 => => transferring context: 4.46kB
 => CACHED [2/5] WORKDIR /app
 => [3/5] COPY . /app
 => [4/5] RUN mkdir /app/model
 => [5/5] RUN pip install --trusted-host pypi.python.org -r requirements
 => exporting to image
 => => exporting layers
 => => writing image sha256:aeb37cb46c66a6d68466ce269567e5045abffef188eeb
 => => naming to docker.io/library/train_svm_img

What's Next?
   View summary of image vulnerabilities and recommendations → docker scout
[(ML_env) kumarroushan@kumars-MacBook-Air digit-classification % docker run
Model training complete for test_frac=0.1, dev_frac=0.1
Model training complete for test_frac=0.1, dev_frac=0.2
Model training complete for test_frac=0.1, dev_frac=0.3
Model training complete for test_frac=0.2, dev_frac=0.1
Model training complete for test_frac=0.2, dev_frac=0.2
Model training complete for test_frac=0.2, dev_frac=0.3
Model training complete for test_frac=0.3, dev_frac=0.1
Model training complete for test_frac=0.3, dev_frac=0.2
Model training complete for test_frac=0.3, dev_frac=0.3
 (ML_env) kumarroushan@kumars-MacBook-Air digit-classification % ▊
```

After   Training and saving model to volume.

```
[(ML_env) kumarroushan@kumars-MacBook-Air digit-classification % docker run
 Model training complete for test_frac=0.1, dev_frac=0.1
 Model training complete for test_frac=0.1, dev_frac=0.2
 Model training complete for test_frac=0.1, dev_frac=0.3
 Model training complete for test_frac=0.2, dev_frac=0.1
 Model training complete for test_frac=0.2, dev_frac=0.2
 Model training complete for test_frac=0.2, dev_frac=0.3
 Model training complete for test_frac=0.3, dev_frac=0.1
 Model training complete for test_frac=0.3, dev_frac=0.2
 Model training complete for test_frac=0.3, dev_frac=0.3
[(ML_env) kumarroushan@kumars-MacBook-Air digit-classification % docker run
[/ # cd /app/model
[/app/model # ls -lh
 total 328K
 -rw-r--r--    1 root     root        327.6K Nov  3 16:27 model.pkl
 /app/model #
```

Q S

Containers

Images

Volumes

Dev Environments   BETA

Docker Scout   EARLY ACCESS

Learning center

Extensions   ⋮

⊕ Add Extensions

m22aie243_volume

● Used by happy_chatelet

Data   In Use

Name ↑

📄 model.pkl