





## Lab5

### Deliverable 1:

#### Verifying Docker installation

<input type="checkbox"/>	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	 xenodochial_shamir	499183d51271	<a href="#">hello-world</a>		N/A	1 second ago	  

### Deliverable 2:

#### Containerize training the machine learning model

### Deliverable 3:

Step1: Implemented predict() function

Step2: Completed Dockerfile.infer

Deliverable4: Completed the docker-compose.yml file

Running the setup:


Running python script for curl:

Output:

```
PS C:\Users\rdaha1\Documents\Spring 2025\CS 594\Lab5\mlip-docker-lab-f24> python curl_run.py
{
  "prediction": [
    "virginica"
  ]
}
```



## Sample Training and inference containers:


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 **mlip-docker-lab-f24**

C:\Users\vdaha1\Documents\Spring 2025\CS 594\Lab5\mlip-docker-lab-f24



View configurations


 




 **mlip-docker-lab-f2...**



[mlip-docker-lab-f24-tr...](#)


 




 **mlip-docker-lab-f2...**

[mlip-docker-lab-f24-in](#)



8080:8080



```
2025-02-28 20:49:27 inference-1 | ['models', 'server.py', 'requirements.txt']
2025-02-28 20:03:43 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:17:03 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:25:01 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:34:10 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:36:32 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:37:44 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:42:47 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:43:13 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:46:25 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:46:49 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:47:37 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:49:27 training-1 | Model training complete and saved as iris_model.pkl
2025-02-28 20:49:27 inference-1 | I am here, successfully loaded the model
2025-02-28 20:49:27 inference-1 | * Serving Flask app 'server'
2025-02-28 20:49:27 inference-1 | * Debug mode: on
2025-02-28 20:49:27 inference-1 | WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
2025-02-28 20:49:27 inference-1 | * Running on all addresses (0.0.0.0)
2025-02-28 20:49:27 inference-1 | * Running on http://127.0.0.1:8080
2025-02-28 20:49:27 inference-1 | * Running on http://172.18.0.3:8080
2025-02-28 20:49:27 inference-1 | Press CTRL+C to quit
2025-02-28 20:49:27 inference-1 | * Restarting with stat
2025-02-28 20:49:28 inference-1 | * Debugger is active!
2025-02-28 20:49:28 inference-1 | * Debugger PIN: 127-339-480
2025-02-28 20:49:51 inference-1 | 172.18.0.1 - - [01/Mar/2025 02:49:51] "POST /predict HTTP/1.1" 200 -
2025-02-28 20:51:16 inference-1 | 172.18.0.1 - - [01/Mar/2025 02:51:16] "POST /predict HTTP/1.1" 200 -
2025-02-28 20:51:27 inference-1 | 172.18.0.1 - - [01/Mar/2025 02:51:27] "POST /predict HTTP/1.1" 200 -
```

