## **Docker Image Creation**

## 1. Creating Docker Image

Command: docker image build -t mlops .

Here, mlops is the image name, and . represents the current repository

## 2. Testing and Running Docker Images

```
e:\MLOps\churnprediction>docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
e:\MLOps\churnprediction>docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
e:\MLOps\churnprediction>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mlops latest 107f6a21a80a 4 hours ago 1.47GB
nginx latest 021283c8eb95 12 days ago 187MB
alpine latest claabb73d233 4 weeks ago 7.33MB
e:\MLOps\churnprediction>docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
e:\MLOps\churnprediction>docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
mlops latest 107f6a21a80a 5 hours ago 1.47GB
nginx latest 021283c8eb95 12 days ago 187MB
alpine latest 021283c8eb95 12 days ago 187MB
alpine latest claabb73d233 4 weeks ago 7.33MB
```

Docker Image Creation 1

```
e:\MLOps\churnprediction>docker run mlops
2023/07/17 13:45:25 WARNING mtflow.utils.git_utils: Failed to import Git (the Git executable is probably not on your PATH), so Git SHA is not a
vailable. Error: Failed to initialize: Bad git executable.
The git executable must be specified in one of the following ways:
- be included in your $PATH
- be set via $GIT_PYTHON_GIT_EXECUTABLE
- explicitly set via git.refresh()
 All git commands will error until this is rectified.
This initial warning can be silenced or aggravated in the future by setting the 
$GIT_PYTHON_REFRESH environment variable. Use one of the following values:
— quiet|q|silence|s|none|n|0: for no warning or exception
— warn|w|warning|1: for a printed warning
— error|e|raise|r|2: for a raised exception
 Example:
export GIT_PYTHON_REFRESH=quiet
                               precision recall f1-score support
                                          0.62
                                                               0.18
                                                                                                              101
                                                                                     0.86
0.60
0.82
                                                                                                             667
667
667
        accuracy
                                         0.75
0.83
                                                               0.58
0.86
 macro avg
weighted avg
Churn
0 2284
1 2284
  Name: count, dtype: int64
```

- error e	e raise r 2: f	for a rai	.sed except:	ion
Example:				
	T_PYTHON_REFF	RESH=quie	t	
	precision	recall	f1-score	support
Θ	0.87	0.98	0.92	566
1	0.62	0.18	0.28	101
accuracy			0.86	667
macro avg	0.75	0.58	0.60	667
weighted avg	0.83	0.86	0.82	667
Churn				
0 2284				
1 2284	dtype: int64			
Name: Count,	precision	nocall	f1-score	support
	precision	recatt	+1-SCOLE	support
Θ	0.95	0.78	0.86	566
1	0.39	0.79	0.52	101
accuracy			0.78	667
macro avg	0.67	0.79	0.69	667
weighted avg	0.87	0.78	0.81	667
	•	•		•

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