## 3.a)Building the Docker file

> docker build -t ml-batchservice-api -f Dockerfile .

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE

PS C:\Users\Munjala Hari Krishna\Desktop\SEDS\Part-B\Qualities in Intelligent Systems\Assignment W-13 W-14\Part-II Batch Serving of a ML model\Model_Batch_Service

Acoker build + ml-batchservice-api - f Dockerfile .

2024/e4/13 16:24:08 thttp: server: error reading preface from client //./pipe/docker_engine: file has already been closed

[+] Building 3.7s (13/13) FINTSHED

Dockerfile .

2024/e4/13 16:24:08 thttp: server: error reading preface from client //./pipe/docker_engine: file has already been closed

[+] Building 3.7s (13/13) FINTSHED

Dockerfile .

2048/e4/14 16:24:08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 10.08 1
```

## 3.b)Running the Docker container

> docker run ml-batchservice-api python3 inference.py

## 3.c)Screenshots of the output

```
> docker run ml-batchservice-api python3 inference.py
Linux-5.15.133.1-microsoft-standard-WSL2-x86_64-with-glibc2.35
Python 3.11.6 | packaged by conda-forge | (main, Oct 3 2023, 10:40:35) [GCC 12.3.0]
NumPy 1.24.4
SciPy 1.11.3
Shape of the test data
(1300, 160)
(1300,)
knc.joblib
KNC score and classification:
0.4530769230769231
```

\_\_\_\_

knc.joblib

KNC score and classification:

0.4530769230769231

KNC Prediction: [ 0 0 0 ... 25 25 24]

	ediction: [		25 25 24	_				
KNC Cl	assificatio	Report:		precisio	precision		f1-score	support
	0	0.70	0.86	0.77	50			
	1	1.00	0.64	0.78	50			
	2	0.30	0.38	0.34	50			
	3	0.12	0.34	0.18	50			
	4	0.19	0.10	0.13	50			
	5	0.16	0.14	0.15	50			
	6	0.21	0.20	0.20	50			
	7	0.08	0.08	0.08	50			
	8	0.13	0.14	0.14	50			
	9	0.12	0.06	0.08	50			
	10	0.39	0.30	0.34	50			
	11	0.26	0.12	0.16	50			
	12	0.50	0.40	0.44	50			
	13	0.19	0.22	0.21	50			
	14	0.37	0.20	0.26	50			
	15	0.07	0.06	0.06	50			
	16	0.11	0.18	0.13	50			
	17	0.87	0.94	0.90	50			
	18	1.00	1.00	1.00	50			
	19	1.00	1.00	1.00	50			
	20	1.00	1.00	1.00	50			
	21	1.00	1.00	1.00	50			
	22	0.69	0.62	0.65	50			
	23	0.76	0.56	0.64	50			
	24	0.54	0.98	0.70	50			
	25	0.62	0.26	0.37	50			
accuracy				0.45	1300			
	ro avg	0.48	0.45	0.45	1300			
weight	ed avg	0.48	0.45	0.45	1300			

gnb.joblib

GNB score and classification:

0.4623076923076923

GNB Prediction: [ 0 25 25 ... 25 25 24]

GNB Classification				sion	recall	f1-score	support
OND CIASSITICACIO	on Report.		precis	31011	I CCGII	11 30010	заррог с
0	0.91	0.20	0.33	50			
1	1.00	0.90	0.95	50			
2	0.78	0.90	0.83	50			
3	0.15	0.32	0.20	50			
4	0.12	0.14	0.13	50			
5	0.21	0.12	0.15	50			
6	0.30	0.18	0.23	50			
7	0.14	0.08	0.10	50			
8	0.07	0.14	0.09	50			
9	0.82	0.36	0.50	50			
10	0.49	0.42	0.45	50			
11	0.00	0.00	0.00	50			
12	0.36	0.40	0.38	50			
13	0.33	0.26	0.29	50			
14	0.34	0.24	0.28	50			
15	0.00	0.00	0.00	50			
16	0.00	0.00	0.00	50			
17	0.70	0.84	0.76	50			
18	1.00	1.00	1.00	50			
19	1.00	1.00	1.00	50			
20	1.00	1.00	1.00	50			
21	1.00	1.00	1.00	50			
22	0.56	0.50	0.53	50			
23	0.85	0.34	0.49	50			
24	0.70	0.98	0.82	50			
25	0.41	0.70	0.52	50			
accuracy			0.46	1300			
macro avg	0.51	0.46	0.46	1300			
weighted avg	0.51	0.46	0.46	1300			