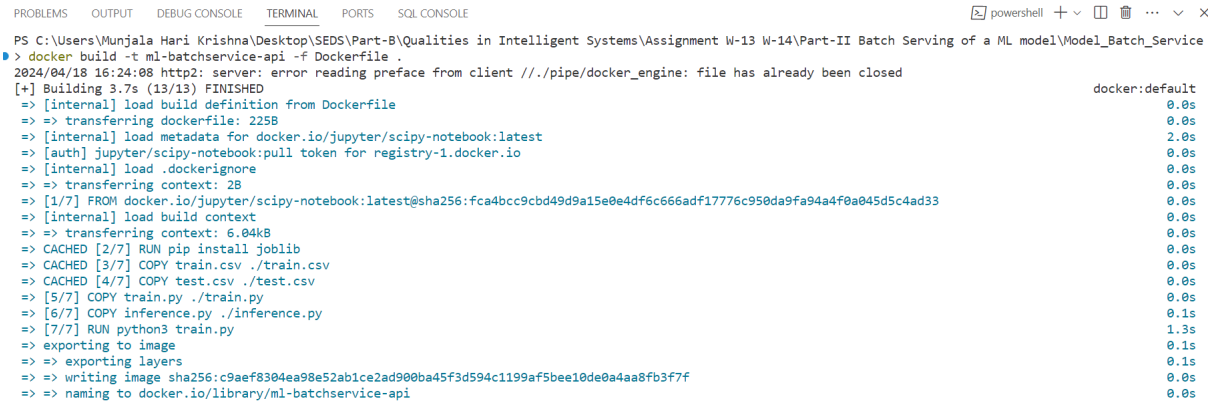
3.a)Building the Docker file

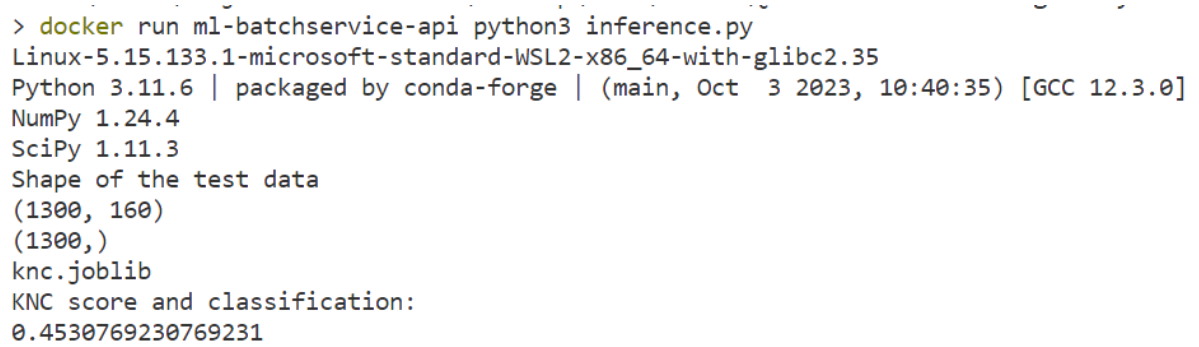
> docker build -t ml-batchservice-api -f Dockerfile .



3.b)Running the Docker container

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

3.c)Screenshots of the output



knc.joblib
KNC score and classification:
0.4530769230769231
KNC Prediction: [0 0 0 ... 25 25 24]
KNC Classification Report:

	precision	recall	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
macro avg	0.48	0.45	0.45	1300
weighted 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 Report:              precision    recall  f1-score   support

           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
```