

Black Friday Sales Prediction Wireframe Documentation

Output On Terminal:

```
(G:\JoJo\Internship\Black Friday Sales Prediction\venv) G:\JoJo\Internship\Black Friday Sales Prediction>python src/pipelines/training_pipeline.py
artifacts\train.csv artifacts\test.csv
{'LinearRegression': 4685.210926624175, 'Lasso': 4685.210926624175, 'Ridge': 4685.206811853984, 'Elasticnet': 4714.401797576395, 'DecisionTree': 3328.067385580834, 'RandomForest': 3053.916200448855, 'AdaBoost': 3595.451498872488, 'GBoost': 2995.5987937236837}

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Best Model Found , Model Name : GBoost , RMSE Score : 2995.5987937236837

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```

Output On Log Page:

```
logs > 08_14_2023_15_09_56.log > 08_14_2023_15_09_56.log
1 [ 2023-08-14 15:10:15,502 ] 25 root - INFO - Data Ingestion method starts
2 [ 2023-08-14 15:10:15,947 ] 29 root - INFO - Dataset read as pandas Dataframe
3 [ 2023-08-14 15:10:17,778 ] 35 root - INFO - Train test split
4 [ 2023-08-14 15:10:19,622 ] 41 root - INFO - Ingestion of data is completed
5 [ 2023-08-14 15:10:21,150 ] 94 root - INFO - Read train and test data completed
6 [ 2023-08-14 15:10:21,166 ] 95 root - INFO - Train Dataframe Head :
7 | User_ID Product_ID Gender Age Occupation City_Category Stay_In_Current_City_Years Marital_Status Product_Category_1 Product_Category_2 Product_Category_3 Purchase
8 | 0 1005046 P00210042 M 26-35 16 A 0 0 8 14.0 NaN 3886
9 | 1 1002627 P00263542 M 26-35 1 B 2 1 16 NaN NaN 12148
10 | 2 1005482 P00061142 M 18-25 7 A 1 0 8 16.0 NaN 8054
11 | 3 1001010 P00127242 M 26-35 0 A 1 0 1 16.0 NaN 4000
12 | 4 1005337 P00057542 F 36-45 3 C 3 1 3 4.0 5.0 13781
13 [ 2023-08-14 15:10:21,170 ] 96 root - INFO - Test Dataframe Head :
14 | User_ID Product_ID Gender Age Occupation City_Category Stay_In_Current_City_Years Marital_Status Product_Category_1 Product_Category_2 Product_Category_3 Purchase
15 | 0 1001062 P00351342 M 51-55 19 C 3 0 1 2.0 16.0 19142
16 | 1 1005172 P00237542 F 36-45 11 B 1 0 1 15.0 16.0 15513
17 | 2 1000415 P00116242 F 36-45 0 A 2 1 8 15.0 NaN 7882
18 | 3 1000496 P00016742 M 18-25 4 A 3 0 1 15.0 16.0 15455
19 | 4 1002010 P00002242 M 18-25 4 B 0 0 6 8.0 16.0 4492
20 [ 2023-08-14 15:10:21,170 ] 98 root - INFO - Obtaining preprocessing object
21 [ 2023-08-14 15:10:21,170 ] 36 root - INFO - Data Transformation initiated
22 [ 2023-08-14 15:10:21,170 ] 51 root - INFO - Pipeline Initiated
23 [ 2023-08-14 15:10:21,170 ] 76 root - INFO - Data Transformation Completed
24 [ 2023-08-14 15:10:21,415 ] 109 root - INFO -
25 | 0 M 26-35 16 A 0 0 8 14.0 NaN
26 | 1 M 26-35 1 B 2 1 16 NaN NaN
27 | 2 M 18-25 7 A 1 0 8 16.0 NaN
28 | 3 M 26-35 0 A 1 0 1 16.0 NaN
29 | 4 F 36-45 3 C 3 1 3 4.0 5.0
30 | ... ... ... ... ...
31 | 385042 M 46-50 17 C 2 0 5 NaN NaN
32 | 385043 M 26-35 14 C 2 1 5 NaN NaN
33 | 385044 F 18-25 1 B 1 0 5 NaN NaN
34 | 385045 F 18-25 4 B 2 0 8 14.0 NaN
35 | 385046 F 18-25 2 A 2 1 5 14.0 NaN
36
37 [385047 rows x 9 columns]
38 [ 2023-08-14 15:10:23,165 ] 132 root - INFO - Applying preprocessing object on training and testing datasets.
39 [ 2023-08-14 15:10:23,250 ] 144 root - INFO - Preprocessor pickle file saved
40 [ 2023-08-14 15:10:23,273 ] 27 root - INFO - Splitting Dependent and Independent variables from train and test data
41 [ 2023-08-14 15:12:54,216 ] 49 root - INFO - Model Report : {'LinearRegression': 4685.206839736625, 'Lasso': 4685.210926624175, 'Ridge': 4685.206811853984, 'Elasticnet': 4714.401797757
42 [ 2023-08-14 15:12:54,217 ] 62 root - INFO - Best Model Found , Model Name : GBoost , RMSE Score : 2995.5987937236837
43
```

Output On Home Page:

Home Page

Output On Prediction Page:

Gender:

Age:

Occupation:

City_Category:

Stay_In_Current_City_Years:

Marital_Status:

Product_Category_1:

Product_Category_2:

Product_Category_3:

Gender:

Age:

Occupation:

City_Category:

Stay_In_Current_City_Years:

Marital_Status:

Product_Category_1:

Product_Category_2:

Product_Category_3:

3795.76