Initial Model Training Code, Model Validation and Evaluation

Date	15 July 2024
Team ID	739646
Project Title	Number Oracle: Big Mart Sales Predictive Analysis
Maximum Marks	4 Marks

Initial Model Training Code, Model Validation and Evaluation Report

The initial model training code will be showcased in the future through a screenshot. The model validation and evaluation report will include classification reports, accuracy, and confusion matrices for multiple models, presented through respective screenshots.

Initial Model Training Code:

Paste the screenshot of the model training code **Model Validation and Evaluation Report:**

Model	Classification Report	Accuracy	Confusion Matrix
RandomForestClassifier	Classification Report: precision recall f1-score support High 0.72 0.85 0.78 1501 Low 0.84 0.76 0.80 1042 Medium 0.49 0.39 0.43 867 accuracy 0.70 3410 macro avg 0.68 0.67 0.67 3410 weighted avg 0.70 0.70 0.70 3410	60.7%	Confusion Matrix: [[1276 20 205] [103 793 146] [399 134 334]]

| XGBOOST | Classification Report:

          precision recall f1-score support

     High   0.72   0.85   0.78   1501
     Low   0.84   0.76   0.80   1042
   Medium   0.49   0.39   0.43   867

  accuracy   0.70   3410
 macro avg   0.68   0.67   0.67   3410
weighted avg 0.70   0.70   0.70   3410 | 61.1% | Confusion Matrix:
[[1276   20 205]
 [103 793 146]
 [399 134 334]] |