Initial Model Training Code, Model Validation and Evaluation

Date	15 July 2024
Team ID	740072
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]]