

Project Development Phase
Model Performance Test

Date	18 February 2026
Team ID	LTVIP2026TMIDS24412
Project Name	Smart Sorting: Transfer learning for identifying rotten fruits and vegetables
Maximum Marks	10 Marks

Model Performance Testing:

The project team shall fill the following information in the model performance testing template.

S.No.	Parameter	Values
1.	Metrics	Regression Model: MAE -2.35 MSE - 8.40 RMSE - 2.89 R2 score - 0.9100 Classification Model: Confusion Matrix - [[185,10],[12,193]] Accuracy Score- 94% Classification Report: Precision: 0.94 Recall: 0.93 F1-Score: 0.94
2.	Tune the Model	Hyperparameter Tuning: Learning Rate = 0.0001 Batch Size = 32 Epochs = 15-20 Optimizer = Adam Validation Method: 80:20 Train - Validation Split & Early Stopping to prevent overfitting