

**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	<p><b>Regression Model:</b>  MAE -2.35  MSE - 8.40  RMSE - 2.89  R2 score - 0.9100</p> <p><b>Classification Model:</b>  Confusion Matrix - [[185,10],[12,193]]  Accuracy Score- 94%  Classification Report:  Precision: 0.94  Recall: 0.93  F1-Score: 0.94</p>
2.	Tune the Model	<p>Hyperparameter Tuning:  Learning Rate = 0.0001  Batch Size = 32  Epochs = 15-20  Optimizer = Adam  Validation Method:  80:20 Train - Validation Split &amp; Early Stopping to prevent overfitting</p>