

Project Development Phase
Model Performance Test

Date	10 February 2026
Team ID	LTVIP2026TMIDS52600
Project Name	Introduction to Smart Sorting – Transfer Learning for Identifying Rotten Fruits and Vegetables
Maximum Marks	

Model Performance Testing:

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

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	Dataset contains images of fruits and vegetables categorized into Fresh and Rotten classes. Total Images: 2,000+ Classes: 2 (Fresh, Rotten) Data successfully loaded and visualized using sample image display.
2.	Data Preprocessing	-Image resizing to 224x224 pixels - Normalization (pixel values scaled between 0–1) - Data Augmentation (Rotation, Flipping, Zoom) - Train-Test Split: 80% Training, 20% Validation
3.	Utilization of Data Filters	- Filter by category (Fresh/Rotten) - Filter by fruit/vegetable type - Removal of corrupted images - Class balancing applied to avoid bias
4.	DAX Queries Used	(If using Power BI) - Total Images = COUNT(Table[Image_ID]) - Fresh Count = CALCULATE(COUNT(Table[Label]), Table[Label] = "Fresh") - Rotten Count = CALCULATE(COUNT(Table[Label]), Table[Label] = "Rotten") - Accuracy Measure = DIVIDE(Correct Predictions, Total Predictions)
5.	Dashboard design	No. of Visualizations / Graphs – 5 - Class Distribution Bar Chart - Accuracy KPI Card - Confusion Matrix - Training vs Validation Accuracy Graph - Prediction Result Display
6	Report Design	No. of Visualizations / Graphs – 4 - Model Accuracy Summary - Precision/Recall Table

		- Performance Comparison Chart - Final Prediction Results Table
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