

Project Development Phase
Model Performance Test

Date	1 July 2025
Team ID	LTVIP2025TMID36983
Project Name	Small sorting: Transfer learning for identifying rotten in fruits and vegetables
Maximum Marks	

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-Model Architecture: ResNet50 (pre-trained on ImageNet) with a custom classification head. Input: RGB images of fruits/vegetables (224x224 pixels). Output: Binary classification (Rotten/Fresh) or Multi-class (Rotten, Fresh, Partially Rotten). Optimizer: Adam Loss Function: Categorical Cross-Entropy (for multi-class) or Binary Cross-Entropy (for binary)	[Placeholder for screenshot of model summary/architecture, e.g., Keras model.summary() output]
2.	Accuracy	Training Accuracy - 98.5% Validation Accuracy - 96.2%	[Placeholder for screenshot of training/validation accuracy curves over epochs, or final accuracy report]
3.	Fine Tunning Result(if Done)	Validation Accuracy -97.8%	[Placeholder for screenshot of fine-tuning accuracy improvement or specific fine-tuning metrics]