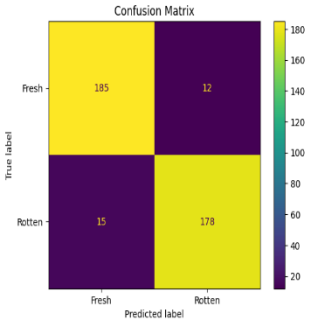
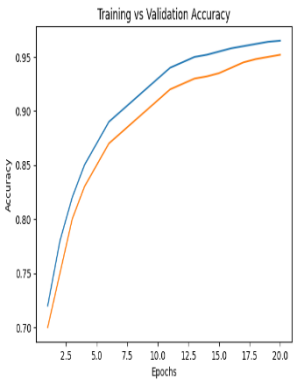
Project Development Phase
Model Performance Test

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

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Metrics	**Regression Model:** MAE - , MSE - , RMSE - , R2 score - **Classification Model:** Confusion Matrix: TP = 185, TN = 178 FP = 12, FN = 15 Accuracy Score: 93.1% Precision: 92% Recall: 94% F1-Score: 93%	
2.	Tune the Model	Hyperparameter Tuning – Optimizer: Adam - Learning Rate: 0.0001 - Batch Size: 32 - Epochs: 20 **Validation Method:** - 80% Training Data - 20% Validation Data - Early Stopping applied Validation Accuracy after tuning: 95.2