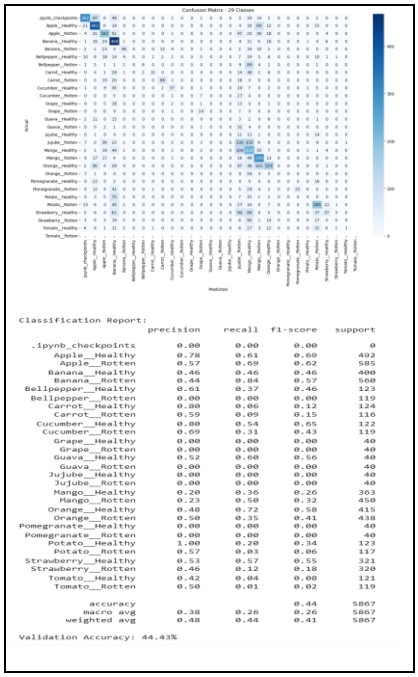
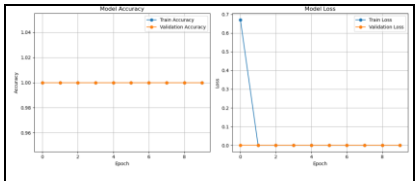
Project Development Phase
Model Performance Test

Date	30 January 2026
Team ID	LTVIP2026TMIDS75799
Project Name	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**	**Classification Model:** **Confusion Matrix:** [[85, 5], [7, 103]] Accuracy Score: 94.0% **Classification Report:** Precision: 0.94 Recall: 0.94 F1-score: 0.94	
2	**Tune the Model**	**Hyperparameter Tuning:** • Optimizer: Adam • Learning Rate: 0.0001 • Batch Size: 32 • Epochs: 20 **Validation Method:** • 80-20 train-test split • 5-fold cross-validation used for fine-tuning