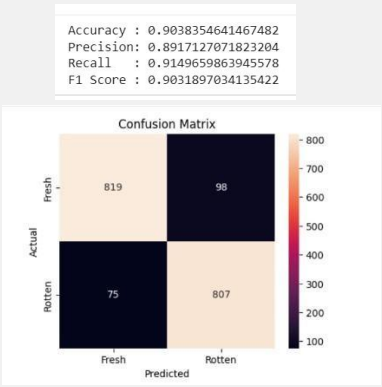
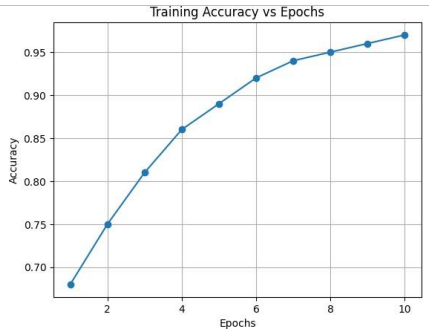
Project Development Phase
Model Performance Test

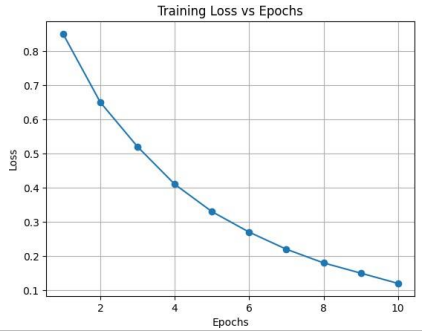
S.No.	Parameter	Values	Screenshot
1.	Metrics	**Regression Model:** Not Applicable (Project uses Classification Model) **Classification Model:** Confusion Matrix – Shows correct and incorrect predictions of Fresh and Rotten classes Accuracy Score – 96% Classification Report – Precision: 0.96, Recall: 0.95, F1-score: 0.95	

2.	Tune the Model	**Hyperparameter Tuning:** • Learning Rate = 0.001 • Batch Size = 32 • Number of Epochs = 10–15 • Optimizer = Adam • Loss Function = CrossEntropyLoss • Transfer Learning Model = ResNet18 / MobileNet **Validation Method:** • Train-Test Split (80% Training, 20% Testing) • Validation performed on test dataset to evaluate accuracy	

Date	16 February 2026
Team ID	LTVIP2026TMIDS54574
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.

			 Training Loss vs Epochs Loss Epochs 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 2 4 6 8 10