**Project Development Phase**

**Model Performance Test**

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID32541 |
| 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** |
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| 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 |  |