**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID59297 |
| Project Name | Smart Sorting: Transfer Learning for Identifying Rotten 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** |
|  | Model Summary | **-** | The Smart Sorting model uses transfer learning with convolutional neural networks to classify fruits and vegetables as fresh or rotten.  It leverages pre-trained models (e.g., MobileNet, ResNet) for efficient and accurate feature extraction.  This approach significantly improves sorting speed and accuracy, reducing manual labor and produce waste |
|  | Accuracy | Training Accuracy -   Validation Accuracy - | Accuracy: 0.7812 - loss: 1.0130 |
| 3. | Fine Tunning Result( if Done) | Validation Accuracy - | 0.7812 |