**Project Development Phase**

**Model Performance Test**

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| Date | 28-June-2025 |
| Team ID | LTVIP2025TMID41140 |
| Project Name | Smart Sorting –transfer learning for identifying Rotten Fruit & Vegetable Classification |
| MARKS | 10 MARKS |

**Model Performance Testing:**

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

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| **S.No.** | **Parameter** | **Values** |
|  | Model Summary | -The model is designed for Smart Waste Sorting using Deep Learning. A Convolutional Neural Network (CNN) is used to classify waste into different categories such as Organic, Recyclable, and Other waste. The model contains several Conv2D layers, Max Pooling layers, followed by Dense layers, and uses Softmax activation in the output layer for multi-class classification. |
|  | Accuracy | Training Accuracy – 82.1%  Validation Accuracy -78.0% |
| 3. | Fine Tunning Result( if Done) | Validation Accuracy -improved after fine-tuning to 80.5% |

