**Project Development Phase**

**Model Performance Test**

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID35341 |
| 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.

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| **S.No.** | **Parameter** | **Values** | **Screenshot** |
|  | Model Summary | |  | | --- | |  |  |  | | --- | | **VGG16** used as the base model  - Input Shape: (224, 224, 3)  - Base model frozen  - Added custom dense layers for classification of **Fresh vs Rotten** **28 classes fruit/vegetable classes** | |  |
|  | Accuracy | Training Accuracy - ~94.6%  Validation Accuracy -~88.3% |  |
| 3. | Fine Tunning Result( if Done) | - Top 10 layers of VGG16 unfrozen for fine-tuning  - **Validation Accuracy after fine-tuning**: ~89.6% |  |