**Project Development Phase**

**Model Performance Test**

| Date | 27th june 2025 |
| --- | --- |
| Team ID | LTIVP2025TMID42332 |
| Project Name | Enchanted wings-Marvel Butterfly species |
| Maximum Marks | 4 |

**Model Performance Testing:**

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

| **S.No.** | **Parameter** | **Values** |
| --- | --- | --- |
|  | Model Summary | Convolutional Neural Network (CNN) architecture used.  Models tried: MobileNetV2, ResNet50.  Final model used: MobileNetV2. |
|  | Accuracy | **Training Accuracy:** 97.2%  **Validation Accuracy:** 94.8% |
| 3. | Fine-Tuning Result (if done) | **Validation Accuracy after tuning:** 95.6%  Optimized using data augmentation, dropout, and learning rate scheduling. |