**Project Development Phase**

**Model Performance Test**

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| Date | 30 June 2025 |
| Team ID | LTVIP2025TMID37158 |
| Project Name | Transfer Learning-Based Classification of  Poultry Diseases for Enhanced Health Management |
| Maximum Marks |  |

**Model Performance Testing:**

Our project Model Performance Testing:

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| **S.No.** | **Parameter** | **Values** | **Screenshot** |
| 1. | Model Summary | Used transfer learning with VGG16 architecture.  Input shape: (224, 224, 3)  Added custom dense layers at the top for classification.  Number of classes: 4  Base model layers frozen initially for better generalization. |  |
| 2. | Accuracy | Training Accuracy - 97.85%    Validation Accuracy 95.40% (after  5 epochs)- |  |
| 3. | Fine Tunning Result( if Done) | Unfroze last 4 layers of VGG16 and retrained.  **Validation Accuracy after finetuning**: 96.25% |  |