**Project Development Phase**

**Model Performance Test**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID43995 |
| Project Name | Transfer Learning-based Classification of Poultry Diseases for Enhanced Health Management |
| Maximum Marks |  |

**Model Performance Testing:**

**Model Summary**

When using a pre-trained model like ResNet50 or EfficientNet in transfer learning, the model.summary() displays:

* The layer-wise architecture of the model
* Number of trainable and non-trainable parameters
* The input and output shapes at each layer

**Training Accuracy**

* This reflects how well the model fits the training data.
* Ideally, it should increase over epochs.
* Too high (>98%) training accuracy might indicate overfitting, especially if validation accuracy is much lower.

**Validation Accuracy**

* Indicates the model’s generalization on unseen data.
* It should ideally track close to training accuracy.
* A large gap implies overfitting.

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| **S.No.** | **Parameter** | **Values** | **Screenshot** |
|  | Model Summary | **-** |  |
|  | Accuracy | Training Accuracy -   Validation Accuracy - |  |
| 3. | Fine-Tuning Result( if Done) | Validation Accuracy - |  |

