**Project Development Phase**

**Model Performance Test**

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| Date | 10 February 2025 |
| Team ID | LTVIP2025TMID59571 |
| Project Name | Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management |
| Maximum 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** | **Screenshot** |
|  | Metrics | **Regression Model:** MAE - , MSE - , RMSE - , R2 score - **Classification Model:** Confusion Matrix - ,  [[45 2 1 0]  [ 3 42 1 1]  [ 0 2 44 2]  [ 0 1 2 47]]  Accuray Score- 91.2%  & Classification Report –  Classification Report:  precision recall f1-score support  Salmonella 0.94 0.92 0.93 48  Newcastle 0.89 0.91 0.90 47  Coccidiosis 0.91 0.88 0.89 50  Healthy 0.94 0.94 0.94 50 |  |
|  | Tune the Model | Hyperparameter Tuning –  Learning Rate: Tuned from 0.001 to 0.0001  Batch Size: Changed from 32 to 16 for better generalization Validation Method –  sed train-validation split (80-20%) |  |