## Project Development Phase Model Performance Test

Date.	27june 2025
Team ID	LTVIP2025TMID60871
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
Maximum Marks	

## **Model Performance Testing Template**

S.No. Parameter Values Screenshot

- 1. Model Metrics Regression Model: (Used for potential disease severity prediction or duration estimation if applicable)<br/>
  br>- MAE: N/A<br>- MSE: N/A<br>- RMSE: N/A<br>- R\* Score: N/A<br>
  Classification Model: (Used for disease diagnosis/classification)<br/>
  br>- Confusion Matrix: [[42, 3], [2, 53]]<br/>
  br>- Accuracy Score: 0.95<br/>
  Recall: 0.96<br/>
   F1-Score: 0.95<br/>
   Support: Per class basis Attach screenshots of confusion matrix and classification report
- 2. Model Tuning & Validation Hyperparameter Tuning:<br/>
  Validation Hyperparameter Tuning:<br/>
  Validation SearchCV for tuning<br/>
  Validation Method:<br/>
  Validation Method:

**Health Management Context Explanation** 

This classification model enhances poultry health management by enabling early, accurate, and automated detection of diseases through image-based diagnosis. By integrating transfer learning, the system improves model accuracy even with limited disease-specific data, supporting faster decision-making for veterinarians and poultry farmers. This contributes to reduced mortality, targeted treatment, and improved productivity.