

**Project Development Phase**  
**Model Performance Test**

Date	28 June 2025
Team ID	LTVIP2025TMID41715
Project Name	Transfer Learning-Based Classification of Poultry Diseases for Enhanced Health Management
Maximum Marks	4 Marks

**Model Performance Testing:**

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

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	Poultry disease dataset including images categorized by disease types (e.g., Newcastle disease, Fowlpox, Coccidiosis). Images collected from veterinary datasets and validated through domain experts.
2.	Data Preprocessing	<ul style="list-style-type: none"><li>- Image normalization</li><li>- Resizing to 224x224 pixels</li><li>- Data augmentation (rotation, zoom, flipping)</li><li>- Label encoding for disease classification</li></ul>
3.	Utilization of Filters	Filters used for: <ul style="list-style-type: none"><li>- Disease Type</li><li>- Confidence Score Range</li><li>- Predicted vs Actual Classification</li><li>- Date of Detection</li></ul>
4.	Calculation fields Used	<ul style="list-style-type: none"><li>- Accuracy = Correct Predictions / Total Predictions</li><li>- Precision, Recall, F1-Score calculated using built-in Tableau calculated fields</li><li>- Disease Occurrence Rate (%)</li></ul>
5.	Dashboard design	No of Visualizations / Graphs - 6 Includes: <ol style="list-style-type: none"><li>1. Confusion Matrix</li><li>2. Model Accuracy Over Epochs</li><li>3. Disease Distribution</li><li>4. Prediction Confidence Histogram</li><li>5. Image Classification Results</li><li>6. Geographical Spread of Detected Diseases</li></ol>
6.	Story Design	No of Visualizations / Graphs - 4 Includes: <ol style="list-style-type: none"><li>1. Model Workflow Overview</li><li>2. Transfer Learning Architecture</li><li>3. Key Insights from Classification Results</li><li>4. Health Management Recommendations Based on Model Output</li></ol>

