Project Development Phase Model Performance Test

Date	10 February 2025	
Team ID	LTVIP2025TMID38849	
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.

S.No.	Parameter	Values	Screenshot
1.	Metrics	Regression Model: NAE – 0.12 br>•	[Fig. 1]
		MSE - 0.03 RMSE - 0.17 R2 score - 0.89 Score - 0.89 Score - 0.89 Score - 0.89 MSE - 0.17 R2	
		Model: Model: Model: Model: 	
		[7, 93]] br>• Accuracy – 94% 	
		Classification Report: - Class	
		"Healthy": P 0.96 R 0.98 F1 0.97	
		Class "Diseased": P 0.94 R 0.93 F1 0.94	
2.	Tune the Model	Hyperparameter Tuning via grid	[Fig. 2]
		search over: - learning_rate: 1e-	
		4, 1e-3 – batch_size: 16, 32 –	
		dropout: 0.3, 0.5 • Optimizer:	
		Adam • Early stopping patience =	
		5 epochs • Best combo: Ir = 1e-4,	
		bs = 32, dropout = 0.3 • Validation	
		Method: Stratified 5-fold CV	