Project Development Phase Model Performance Test

Date	10 February 2025	
Team ID	LTVIP2025TMID33049	
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
			No. of
1.	Metrics	Regression Model:	Input image (224, 224, 3)
		MAE - , MSE - , RMSE - , R2 score -	Conn/24 (Conv2D) 16 1 ReLU 3 x 3 (None, 224, 224, 16) 448 Max Pooling2d 2 2 x 2 (None, 112, 112, 16) 0 (Max/Pooling2D) 2 0 x 2
		IVIAE - , IVISE - , KIVISE - , KZ SCOTE -	Diopost (Dropout) (None, 112, 112, 16) 0 Com2d_1(Com2D) 32 1 ReLU 3 x3 (None, 112, 112, 32) 4640
			Max_Pooling2d_1 2 2 x 2 (None, 56, 56, 32) 0 (Max-Pooling2D)
			Dropout_3 (Dropout_ Cent2d_3 (Cont20)
		Classification Model:	(MaxPooling2D) 2 2 x 2 (None, 28, 28, 64) 0 (MaxPooling2D) (None, 28, 28, 64) 0
		0 () 14 () 4	Conv2d_4 (Conv20) 128 1 ReLU 3 x 3 (None, 28, 28, 128) 73856 Max_Pociling2d_3 2 2 x 2 (None, 14, 14, 128) 0
		Confusion Matrix - , Accuray Score-	(MaxPooling2D) Dropout_3 (Dropout) (None, 14, 14, 128) 0
		& Classification Report -	Hatten (Hatten) (None, 210081) 0
		& Classification Report -	Fully Connected Layer 4 Softmax (None, 4) 2052 Total parameters: is 12,945,060
			Trainable parameters: is 12,945,060 Non-Trainable parameters: 0
2.	Tune the Model	Hyperparameter Tuning -	Confusion matrix
			Predicted label
		Validation Method -	S - 238 0 1 1 -200
			2
			Figure 1
			1 21 2 6 -159 2 4 2 2 1 2 1 2 1 2 6 -100 2 2 1 2 2 1 2 2 1 2 2 2 2 2 2 2 2 2
			- 50 $\frac{2}{6}$ - 1 12 1 226
			coccidiosis healthy ncd salmo
			Figure 5. Confusion matrix of the proposed model