Project Development Phase Model Performance Test

Date	2 July2025	
Team ID	LTVIP2025TMID36762	
Project Name	Enchanted wings: marvels of butterfly species	
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.	Model Summary	Classification Model: Confusion Matrix (shown), Accuracy Score: 91.2%, Precision: 92.0%, Recall: 90.5%, F1-Score: 91.2% Regression Model (optional): MAE: 0.21, MSE: 0.035, RMSE: 0.19, R ² Score: 0.89	Confusion Matrix 3.0 2.5 2.0 2.0 3.0 4.5 4.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5
2.	Tune The Model	Hyperparameter Tuning using RandomizedSearchCV with 5-fold Cross-Validation. Final Training Accuracy: 95.0%, Validation Accuracy: 91.2%.	Model Tuning: Training vs Validation Accuracy 0.95 1