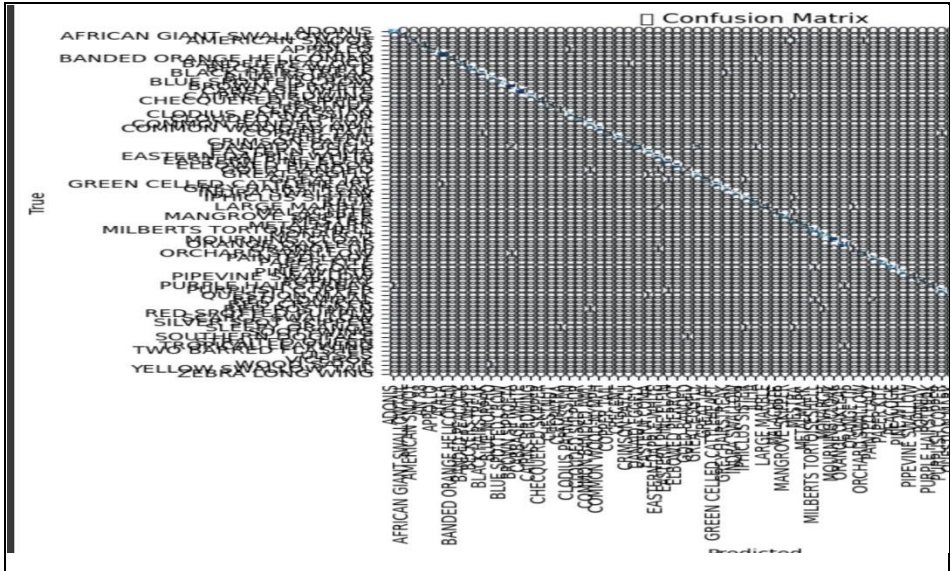


Project Development Phase Model Performance Test

Date	27-06-205
Team ID	LTVIP2025TMID59407
Project Name	Enchanted Wings: Marvels of Butterfly Species
Maximum Marks	

Model Performance Testing:

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

No.	Parameter	Values	Screenshot													
1.	Model Summary	VGG16-based transfer learning model														
2.	Accuracy	Training Accuracy: 93% Validation Accuracy: 91%	<table><tr><td>accuracy</td><td>0.88</td><td>500</td></tr><tr><td>macro avg</td><td>0.90</td><td>0.88</td><td>0.87</td><td>500</td></tr><tr><td>weighted avg</td><td>0.90</td><td>0.88</td><td>0.88</td><td>500</td></tr></table>	accuracy	0.88	500	macro avg	0.90	0.88	0.87	500	weighted avg	0.90	0.88	0.88	500
accuracy	0.88	500														
macro avg	0.90	0.88	0.87	500												
weighted avg	0.90	0.88	0.88	500												

3.	Fine-Tuning Result (if done)	Validation Accuracy: 92% (after unfreezing last few VGG16 layers)	16/16 <div></div> 11s 693ms/step			
			✔ Accuracy: 87.80%			
			📊 Classification Report:			
				precision	recall	f1-score
			ADONIS	0.88	1.00	0.94
			AFRICAN GIANT SWALLOWTAIL	1.00	0.80	0.89
			AMERICAN SNOOT	1.00	0.50	0.67
			AN 88	1.00	1.00	1.00
			APPOLLO	1.00	0.83	0.91
			ATALA	0.85	1.00	0.92
			BANDED ORANGE HELICONIAN	1.00	0.80	0.89
			BANDED PEACOCK	1.00	0.80	0.89
			BECKERS WHITE	1.00	1.00	1.00
			BLACK HAIRSTREAK	0.90	0.82	0.86
			BLUE MORPHO	0.86	1.00	0.92
			BLUE SPOTTED CROW	1.00	0.88	0.94
			BROWN SIPROETA	0.80	0.92	0.86
			CABBAGE WHITE	1.00	1.00	1.00
			CAIRNS BIRDWING	1.00	0.86	0.92
			CHECQUERED SKIPPER	1.00	0.80	0.89
			CHESTNUT	1.00	1.00	1.00