Project Development Phase Model Performance Test

Date	23 June 2025	
Team ID	LTVIP2025TMID59524	
Project Name	Pollen's Profiling: Automated Classification of Pollen Grains	
Maximum Marks	10 Marks	

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Transfer Learning with VGG16 Input Size: 224x224 Pre-trained on ImageNet Frozen base layers, added custom Dense layers Optimizer: Adam Loss: Categorical	March Marc
2.	Accuracy	Crossentropy Training Accuracy: ~84.7% (from last epochs of graph) Validation Accuracy: ~84.3% (based on final values, not 94.3%)	i produce to the second
3.	Fine Tunning Result	After unfreezing and fine-tuning: Validation Accuracy: ~85.8%– 86.0% (approximate peak seen in accuracy graph)	The was himself