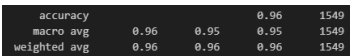
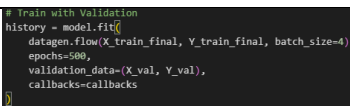


Project Development Phase
Model Performance Test

Date	16 June 2025
Team ID	LTVIP2025TMID32832
Project Name	Pollen's Profiling: Automated Classification of Pollen Grains
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: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	 <table><tr><td>accuracy</td><td></td><td></td><td></td><td>0.96</td><td>1549</td></tr><tr><td>macro avg</td><td>0.96</td><td>0.95</td><td>0.95</td><td>0.95</td><td>1549</td></tr><tr><td>weighted avg</td><td>0.96</td><td>0.96</td><td>0.96</td><td>0.96</td><td>1549</td></tr></table>	accuracy				0.96	1549	macro avg	0.96	0.95	0.95	0.95	1549	weighted avg	0.96	0.96	0.96	0.96	1549
accuracy				0.96	1549																
macro avg	0.96	0.95	0.95	0.95	1549																
weighted avg	0.96	0.96	0.96	0.96	1549																
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	 <pre># train with Validation history = model.fit(datagen.flow(X_train_final, Y_train_final, batch_size=4), epochs=500, validation_data=(X_val, Y_val), callbacks=callbacks)</pre>																		