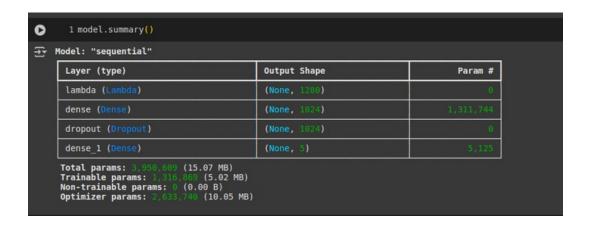
Project Development Phase Model Performance Test

Date	26 june 2025	
Team ID		
Project Name	GrainPalette A Deep Learning Odyssey In Rice Type Classification Through Transfer Learning	
Maximum Marks		

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
2.	Model Summary Accuracy	Sequential Model Architecture: Lambda Layer, Dense Layer, Dropout Layer, Dense Layer. Training Accuracy - 97.85% Validation Accuracy -98%	
3.	Fine Tunning Result(if Done)	Validation Accuracy - N/A	N/A



```
11s 48ms/step - accuracy: 0.9785 - loss: 0.0687

→ 235/235

     [0.059830594807863235, 0.9814666509628296]
0
       1 y_pred=model.predict(test_generator)
       2 y_pred=np.argmax(y_pred,axis=1)
       4 print(classification_report(test_generator.classes,y_pred))
⊕ 235/235
                                  20s 70ms/step
                   precision
                                 recall f1-score
                                                    support
                        0.97
                                   0.98
                                             0.97
                                                       1500
                        0.99
                                   0.99
                                             0.99
                                                       1500
                        0.99
                                   1.00
                                             1.00
                                                       1500
                        0.98
0.98
                                  0.98
0.97
                                             0.98
                                                       1500
                                                       1500
        accuracy
                                             0.98
                                                       7500
                                  0.98
0.98
        macro avg
                        0.98
                                             0.98
                                                       7500
     weighted avg
                        0.98
                                             0.98
                                                       7500

    Visualizing Accuracy and Loss

       1 acc= pd.DataFrame({"train":history.history["accuracy"],"val":history.history["val_accuracy"]
       2 loss= pd.DataFrame({"train":history.history["loss"], "val":history.history["val_loss"]
       1 # Plotting Accuracy
       2 plt.figure(figsize=(10, 5))
        3 sns.lineplot(data=acc, markers=True)
```



