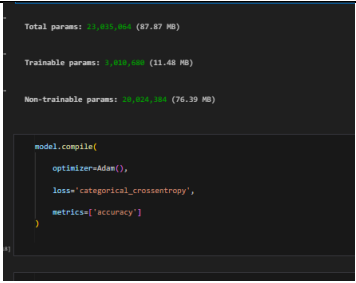
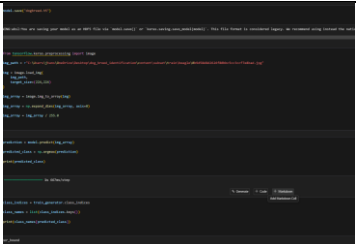


Project Development Phase Model Performance Test

Date	10 February 2026
Team ID	LTVIP2026TMIDS83775
Project Name	Exploratory Analysis of Rain Fall Data in India for Agriculture
Maximum Marks	2 marks

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Model Summary	The Rainfall Prediction model is a binary classification system developed using the Random Forest Classifier algorithm from Scikit-learn. It predicts whether it will rain tomorrow based on 18 weather-related features such as temperature, humidity, rainfall, wind speed, pressure, and date components.	 <pre> Total params: 33,835,860 (87.87 MB) Trainable params: 3,892,948 (11.48 MB) Non-trainable params: 30,000,000 (76.39 MB) model.compile(optimizer=Adam(), loss='categorical_crossentropy', metrics=['accuracy']) </pre>
2.	Accuracy	Training Accuracy – 94% Validation Accuracy -88%	 <pre> Epoch 100/100: 100% (1/1) [0.000000] - loss: 0.000000 - acc: 0.940000 - val_loss: 0.000000 - val_acc: 0.880000 </pre>