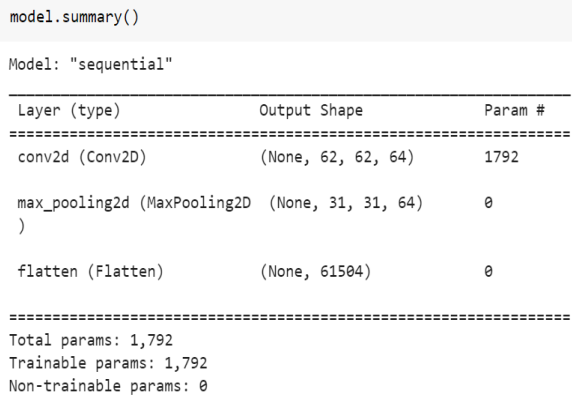
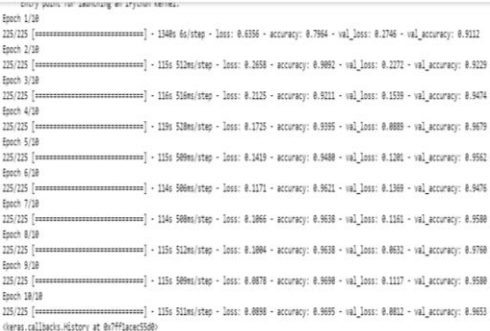
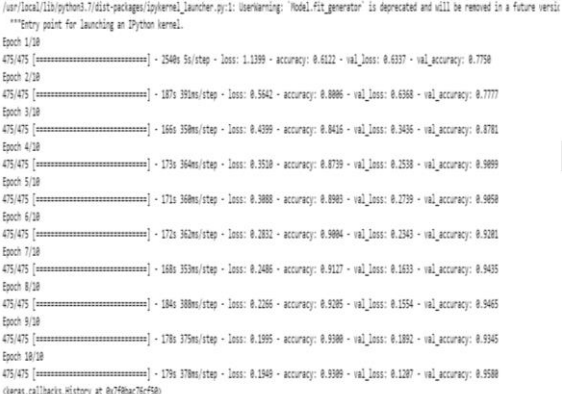


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID07943
Project Name	Fertilizers Recommendation System for Disease Prediction
Maximum Marks	10 Marks

Model Performance Testing:

S.No	Parameter	Values	Screenshot
1.	Model Summary		 <pre> model.summary() Model: "sequential" Layer (type) Output Shape Param # ===== conv2d (Conv2D) (None, 62, 62, 64) 1792 max_pooling2d (MaxPooling2D) (None, 31, 31, 64) 0 flatten (Flatten) (None, 61504) 0 ===== Total params: 1,792 Trainable params: 1,792 Non-trainable params: 0 </pre>
2.	Accuracy	Fruit Training Accuracy – 96.9% Validation Accuracy – 96.5% Vegetable Training Accuracy – 93.0% Validation Accuracy – 95.8%	Fruit  <pre> Entry point for launching an IPython kernel: Epoch 1/10 225/225 [=====] - 1340s 6s/step - loss: 0.8356 - accuracy: 0.7964 - val_loss: 0.2746 - val_accuracy: 0.9112 Epoch 2/10 225/225 [=====] - 115s 512ms/step - loss: 0.2650 - accuracy: 0.9002 - val_loss: 0.2272 - val_accuracy: 0.9329 Epoch 3/10 225/225 [=====] - 116s 510ms/step - loss: 0.2325 - accuracy: 0.9211 - val_loss: 0.1539 - val_accuracy: 0.9474 Epoch 4/10 225/225 [=====] - 116s 510ms/step - loss: 0.1725 - accuracy: 0.9395 - val_loss: 0.8089 - val_accuracy: 0.9679 Epoch 5/10 225/225 [=====] - 116s 510ms/step - loss: 0.1419 - accuracy: 0.9480 - val_loss: 0.1201 - val_accuracy: 0.9562 Epoch 6/10 225/225 [=====] - 114s 508ms/step - loss: 0.1171 - accuracy: 0.9621 - val_loss: 0.1369 - val_accuracy: 0.9476 Epoch 7/10 225/225 [=====] - 114s 508ms/step - loss: 0.1066 - accuracy: 0.9638 - val_loss: 0.1161 - val_accuracy: 0.9580 Epoch 8/10 225/225 [=====] - 115s 512ms/step - loss: 0.1084 - accuracy: 0.9638 - val_loss: 0.8632 - val_accuracy: 0.9760 Epoch 9/10 225/225 [=====] - 115s 508ms/step - loss: 0.0878 - accuracy: 0.9698 - val_loss: 0.1117 - val_accuracy: 0.9580 Epoch 10/10 225/225 [=====] - 115s 512ms/step - loss: 0.0899 - accuracy: 0.9695 - val_loss: 0.0812 - val_accuracy: 0.9653 (keras.callbacks.History at 0x7f9a6c5508) Vegetable  <pre> /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: UserWarning: 'Model_Fit_generator' is deprecated and will be removed in a future versio ***Entry point for launching an IPython kernel. Epoch 1/10 475/475 [=====] - 2540s 5s/step - loss: 1.1399 - accuracy: 0.6112 - val_loss: 0.6337 - val_accuracy: 0.7750 Epoch 2/10 475/475 [=====] - 187s 392ms/step - loss: 0.5842 - accuracy: 0.8086 - val_loss: 0.6368 - val_accuracy: 0.7777 Epoch 3/10 475/475 [=====] - 186s 358ms/step - loss: 0.4399 - accuracy: 0.8416 - val_loss: 0.3436 - val_accuracy: 0.8781 Epoch 4/10 475/475 [=====] - 173s 364ms/step - loss: 0.3518 - accuracy: 0.8739 - val_loss: 0.2538 - val_accuracy: 0.9099 Epoch 5/10 475/475 [=====] - 171s 368ms/step - loss: 0.3088 - accuracy: 0.8960 - val_loss: 0.2759 - val_accuracy: 0.9050 Epoch 6/10 475/475 [=====] - 171s 362ms/step - loss: 0.2352 - accuracy: 0.9064 - val_loss: 0.2343 - val_accuracy: 0.9201 Epoch 7/10 475/475 [=====] - 168s 353ms/step - loss: 0.2485 - accuracy: 0.9127 - val_loss: 0.1633 - val_accuracy: 0.9435 Epoch 8/10 475/475 [=====] - 184s 388ms/step - loss: 0.2265 - accuracy: 0.9205 - val_loss: 0.1554 - val_accuracy: 0.9445 Epoch 9/10 475/475 [=====] - 178s 375ms/step - loss: 0.1395 - accuracy: 0.9300 - val_loss: 0.1892 - val_accuracy: 0.9345 Epoch 10/10 475/475 [=====] - 179s 370ms/step - loss: 0.1348 - accuracy: 0.9380 - val_loss: 0.1207 - val_accuracy: 0.9580 (keras.callbacks.History at 0x7f9ba676c750) </pre> </pre>