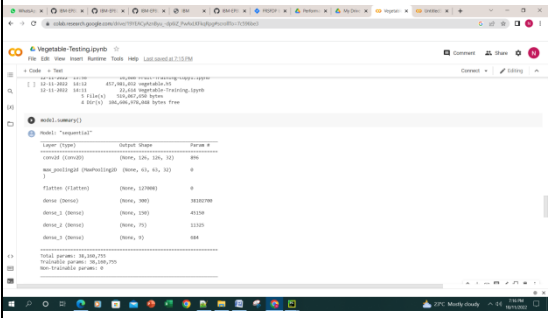
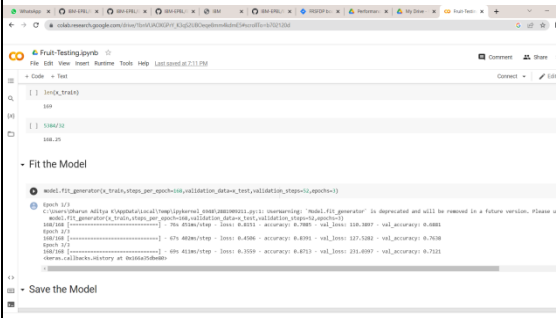


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID08563
Project Name	Fertilizer Recommendation System For Disease Prediction
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.	Model Summary	Total params: 38,160,755 Trainable params: 38,160,755 Non-Trainable params: 0	
2.	Accuracy	Training Accuracy –97.55 Validation Accuracy – 96.45	

MODEL SUMMARY:

Vegetable-Testing.ipynb

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model.summary()

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 32)	896
max_pooling2d (MaxPooling2D)	(None, 63, 63, 32)	0
flatten (Flatten)	(None, 127008)	0
dense (Dense)	(None, 300)	38102700
dense_1 (Dense)	(None, 150)	45150
dense_2 (Dense)	(None, 75)	11325
dense_3 (Dense)	(None, 9)	684

Total params: 38,160,755
Trainable params: 38,160,755
Non-trainable params: 0

ACCURACY:

Fruit-Testing.ipynb

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len(x_train)

169

5384/32

168.25

Fit the Model

model.fit_generator(x_train, steps_per_epoch=168, validation_data=x_test, validation_steps=52, epochs=3)

Epoch 1/3
C:\Users\Dharun Aditya K\AppData\Local\Temp\ipykernel_6948\2881909211.py:1: UserWarning: 'Model.fit_generator' is deprecated and will be removed in a future version. Please use 'Model.fit_generator(x_train, steps_per_epoch=168, validation_data=x_test, validation_steps=52, epochs=3)'

Epoch 2/3
168/168 [=====] - 76s 451ms/step - loss: 0.8151 - accuracy: 0.7085 - val_loss: 110.3897 - val_accuracy: 0.6881

Epoch 3/3
168/168 [=====] - 67s 402ms/step - loss: 0.4506 - accuracy: 0.8391 - val_loss: 127.5282 - val_accuracy: 0.7638

168/168 [=====] - 69s 411ms/step - loss: 0.3559 - accuracy: 0.8713 - val_loss: 231.0397 - val_accuracy: 0.7121

keras.callbacks.History at 0x166a35dbe00>

Save the Model