

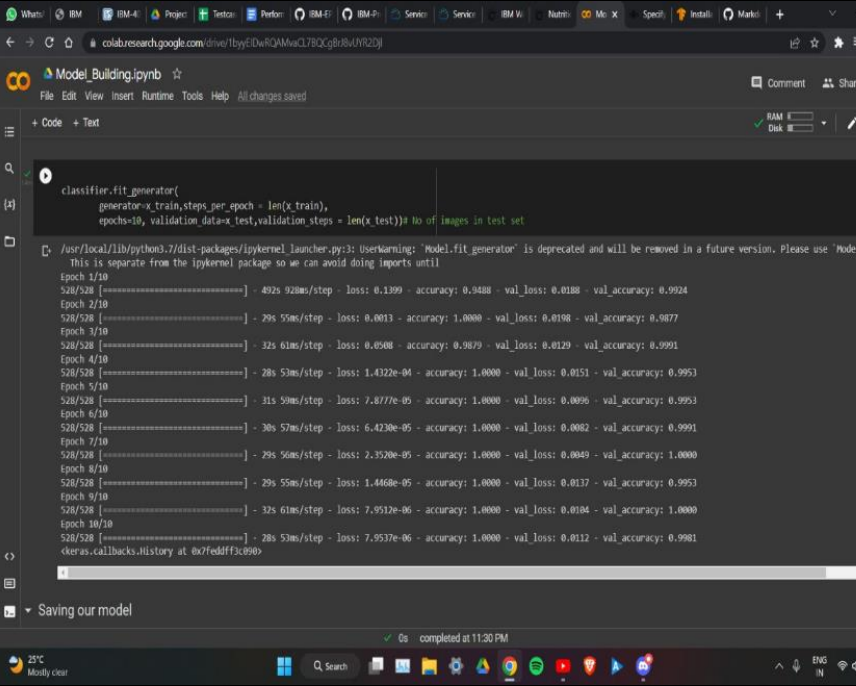
Project Development Phase Model Performance Test

Date	18 November 2022
Team ID	PNT2022TMID37067
Project Name	Project - AI-powered Nutrition Analyzer for Fitness Enthusiasts
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: 813,733 Trainable params: 813,733 Non-trainable params: 0	<pre> classfier.add(Dense(units=128, activation='relu')) [11] classfier.add(Dense(units=5, activation='softmax')) # softmax for more than 2 classfier.summary()#summary of our model Model: "sequential" Layer (type) Output Shape Param # ----- conv2d (Conv2D) (None, 62, 62, 32) 896 max_pooling2d (MaxPooling2D) (None, 31, 31, 32) 0 conv2d_1 (conv2d) (None, 29, 29, 32) 9248 max_pooling2d_1 (MaxPooling2D) (None, 14, 14, 32) 0 flatten (Flatten) (None, 6772) 0 dense (Dense) (None, 128) 802944 dense_1 (Dense) (None, 5) 645 ----- Total params: 813,733 Trainable params: 813,733 Non-trainable params: 0 </pre>

2.	Accuracy	Training Accuracy - 99.6% Validation Accuracy - 99.6%	 <pre>classifier.fit_generator(generator=x_train, steps_per_epoch = len(x_train), epochs=10, validation_data=x_test, validation_steps = len(x_test))# No of images in test set /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:3: UserWarning: 'Model.fit_generator' is deprecated and will be removed in a future version. Please use 'Model.fit' instead. This is separate from the ipykernel package so we can avoid doing imports until Epoch 1/10 528/528 [=====] - 402s 920ms/step - loss: 0.1399 - accuracy: 0.9480 - val_loss: 0.0188 - val_accuracy: 0.9924 Epoch 2/10 528/528 [=====] - 29s 55ms/step - loss: 0.0013 - accuracy: 1.0000 - val_loss: 0.0198 - val_accuracy: 0.9877 Epoch 3/10 528/528 [=====] - 32s 61ms/step - loss: 0.0508 - accuracy: 0.9879 - val_loss: 0.0129 - val_accuracy: 0.9991 Epoch 4/10 528/528 [=====] - 28s 53ms/step - loss: 1.4322e-04 - accuracy: 1.0000 - val_loss: 0.0151 - val_accuracy: 0.9953 Epoch 5/10 528/528 [=====] - 31s 59ms/step - loss: 7.8777e-05 - accuracy: 1.0000 - val_loss: 0.0096 - val_accuracy: 0.9953 Epoch 6/10 528/528 [=====] - 30s 57ms/step - loss: 6.4230e-05 - accuracy: 1.0000 - val_loss: 0.0082 - val_accuracy: 0.9991 Epoch 7/10 528/528 [=====] - 29s 56ms/step - loss: 2.3520e-05 - accuracy: 1.0000 - val_loss: 0.0049 - val_accuracy: 1.0000 Epoch 8/10 528/528 [=====] - 29s 55ms/step - loss: 1.4468e-05 - accuracy: 1.0000 - val_loss: 0.0137 - val_accuracy: 0.9953 Epoch 9/10 528/528 [=====] - 32s 61ms/step - loss: 7.9512e-06 - accuracy: 1.0000 - val_loss: 0.0104 - val_accuracy: 1.0000 Epoch 10/10 528/528 [=====] - 28s 53ms/step - loss: 7.9517e-06 - accuracy: 1.0000 - val_loss: 0.0112 - val_accuracy: 0.9981 keras.callbacks.History at 0x7edff3c89b0</pre> <p>Saving our model</p> <p>completed at 11:20 PM</p>
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