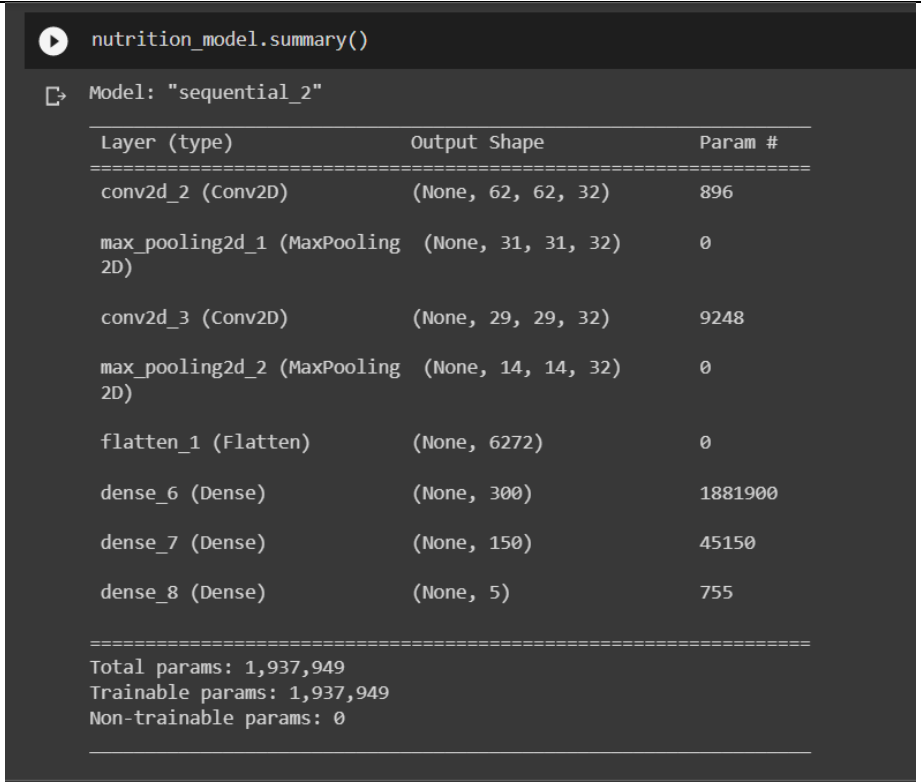


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID27062
Project Name	AI Powered Nutrition Analyser 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	Classification model Accuracy= 99.96%	 <pre> nutrition_model.summary() Model: "sequential_2" Layer (type) Output Shape Param # ----- conv2d_2 (Conv2D) (None, 62, 62, 32) 896 max_pooling2d_1 (MaxPooling2D) (None, 31, 31, 32) 0 conv2d_3 (Conv2D) (None, 29, 29, 32) 9248 max_pooling2d_2 (MaxPooling2D) (None, 14, 14, 32) 0 flatten_1 (Flatten) (None, 6272) 0 dense_6 (Dense) (None, 300) 1881900 dense_7 (Dense) (None, 150) 45150 dense_8 (Dense) (None, 5) 755 Total params: 1,937,949 Trainable params: 1,937,949 Non-trainable params: 0 </pre>

2.	Training and Accuracy	Training accuracy= 99.96% Validation Accuracy= 97.91%	<div><div><div></div><div>nutrition_model.fit_generator(xtrain, steps_per_epoch=len(xtrain), epochs=10, validation_data=xtest, validation_steps=len(xtest))</div></div><div><div></div><div>Epoch 1/10 /usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:5: UserWarning: `Model.fit_generator` is deprecated and will be removed 27/27 [=====] - 49s 169ms/step - loss: 0.4586 - accuracy: 0.8355 - val_loss: 0.0201 - val_accuracy: 1.0000 Epoch 2/10 27/27 [=====] - 4s 166ms/step - loss: 0.0164 - accuracy: 0.9966 - val_loss: 0.0970 - val_accuracy: 0.9583 Epoch 3/10 27/27 [=====] - 4s 164ms/step - loss: 0.0037 - accuracy: 0.9996 - val_loss: 0.0307 - val_accuracy: 0.9858 Epoch 4/10 27/27 [=====] - 4s 165ms/step - loss: 0.0024 - accuracy: 0.9996 - val_loss: 0.0481 - val_accuracy: 0.9791 Epoch 5/10 27/27 [=====] - 4s 163ms/step - loss: 2.3015e-04 - accuracy: 1.0000 - val_loss: 0.0652 - val_accuracy: 0.969 Epoch 6/10 27/27 [=====] - 4s 165ms/step - loss: 0.0012 - accuracy: 0.9996 - val_loss: 0.0249 - val_accuracy: 0.9886 Epoch 7/10 27/27 [=====] - 5s 168ms/step - loss: 0.0031 - accuracy: 0.9996 - val_loss: 0.0691 - val_accuracy: 0.9791 Epoch 8/10 27/27 [=====] - 5s 169ms/step - loss: 4.4049e-04 - accuracy: 1.0000 - val_loss: 0.1583 - val_accuracy: 0.924 Epoch 9/10 27/27 [=====] - 5s 173ms/step - loss: 1.5854e-04 - accuracy: 1.0000 - val_loss: 0.0577 - val_accuracy: 0.976 Epoch 10/10 27/27 [=====] - 5s 172ms/step - loss: 6.7781e-05 - accuracy: 1.0000 - val_loss: 0.0551 - val_accuracy: 0.973 <keras.callbacks.History at 0x7f105c35c750></div></div></div>
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