Model performance Test

Date	10 November 2022
Team ID	PNT2022TMID34090
Project Name	Project - Al-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		In [20]: classifier.summary()#summary of our model
	, , , , , , , , , , , , , , , , , , , ,	Total params: 712,389	Model: "sequential_1"
		<u> </u>	Layer (type) Output Shape Param #
		Trainable	conv2d (Conv2D) (None, 62, 62, 32) 896
		params:712,389Non-	max_pooling2d (MaxPcoling2D (Mone, 31, 31, 32) 0)
		trainable params: 0	conv2d_1 (Conv2D) (None, 29, 29, 32) 9248
			conv2d_2 (Conv2D) (None, 27, 27, 32) 9248
			max_pooling2d_1 (MaxPooling (None, 13, 13, 32) 0 2D)
			flatten (Flatten) (None, 5408) θ
			dense (Dense) (None, 128) 692352
			dense_1 (Dense) (None, 5) 645
			Total params: 712,389 Trainable params: 712,389 Non-trainable params: 0
2.	Accuracy	Training Accuracy –	and if the present (present experience, prior), seeming a single prior to the prior prior is the prior prior to the prior prior to the prior prior to the prior t
	,	96.55 Validation	The control of the co
		Accuracy – 97.45	The first Comment of the Comment of

Model Summary

Model: "sequential_1"				
Layer (type)	Output Shape	Param #		
conv2d (Conv2D)	(None, 62, 62, 32)	896		
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 31, 31, 32)	0		
conv2d_1 (Conv2D)	(None, 29, 29, 32)	9248		
conv2d_2 (Conv2D)	(None, 27, 27, 32)	9248		
max_pooling2d_1 (MaxPooling 2D)	(None, 13, 13, 32)	0		
flatten (Flatten)	(None, 5408)	0		
dense (Dense)	(None, 128)	692352		
dense_1 (Dense)	(None, 5)	645		

Accuracy

Epoch 17/20

```
In [38]: model.fit_generator(generator=x_train,
              steps_per_epoch = len(x_train),
epochs=20,
              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:5: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future versio
   n. Please use `Model.fit`, which supports generators.
    Epoch 1/20
    826/826 [===
         :============================ ] - 1063s 1s/step - loss: 0.6306 - accuracy: 0.2536 - val_loss: 0.5216 - val_accuracy: 0.1761
    Epoch 2/20
    826/826 [===
          Epoch 3/20
    Epoch 4/20
          ============================== - 65s 79ms/step - loss: 0.3804 - accuracy: 0.2343 - val_loss: 0.2869 - val_accuracy: 0.2393
    Epoch 5/20
          826/826 [==
    Epoch 6/20
            826/826 [==
    Epoch 7/20
    ================================= ] - 67s 82ms/step - loss: 0.2902 - accuracy: 0.2396 - val_loss: 0.2417 - val_accuracy: 0.2275
    826/826 [===
    Epoch 10/20
    Epoch 11/20
    Epoch 12/20
    Epoch 13/20
    Epoch 14/20
    826/826 [=============] - 69s 83ms/step - loss: 0.2132 - accuracy: 0.2369 - val_loss: 0.1477 - val_accuracy: 0.2524
    Epoch 15/20
    Epoch 16/20
```

826/826 [============] - 70s 85ms/step - loss: 0.1686 - accuracy: 0.2376 - val loss: 0.0846 - val accuracy: 0.2403