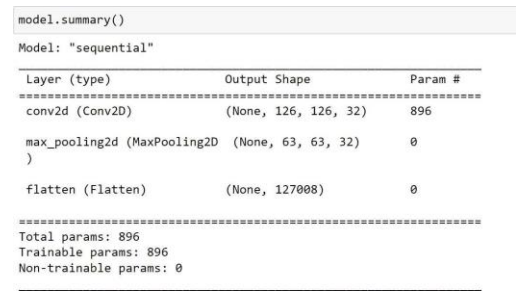
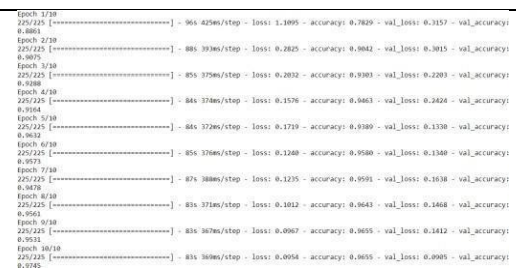


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID24396
Project Name	Project – SMART FASHION RECOMMENDER APPLICATION
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: 896 Trainable params: 896 Non-trainable params: 0	 <pre> 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 _____ Total params: 896 Trainable params: 896 Non-trainable params: 0 </pre>
2.	Accuracy	Training Accuracy – 96.55 Validation Accuracy – 97.45	 <pre> epoch 1/10 [.....] - loss: 0.4256/step - loss: 1.1895 - accuracy: 0.7829 - val_loss: 0.3157 - val_accuracy: 0.8863 epoch 2/10 [.....] - loss: 0.3936/step - loss: 0.2825 - accuracy: 0.8842 - val_loss: 0.3015 - val_accuracy: 0.8875 epoch 3/10 [.....] - loss: 0.3756/step - loss: 0.2802 - accuracy: 0.8903 - val_loss: 0.2203 - val_accuracy: 0.9086 epoch 4/10 [.....] - loss: 0.3746/step - loss: 0.1576 - accuracy: 0.9463 - val_loss: 0.2424 - val_accuracy: 0.9164 epoch 5/10 [.....] - loss: 0.3726/step - loss: 0.1719 - accuracy: 0.9389 - val_loss: 0.1330 - val_accuracy: 0.9632 epoch 6/10 [.....] - loss: 0.3706/step - loss: 0.1248 - accuracy: 0.9588 - val_loss: 0.1348 - val_accuracy: 0.9573 epoch 7/10 [.....] - loss: 0.3686/step - loss: 0.1275 - accuracy: 0.9591 - val_loss: 0.1638 - val_accuracy: 0.9676 epoch 8/10 [.....] - loss: 0.3716/step - loss: 0.1012 - accuracy: 0.9643 - val_loss: 0.1468 - val_accuracy: 0.9561 epoch 9/10 [.....] - loss: 0.3676/step - loss: 0.0967 - accuracy: 0.9655 - val_loss: 0.1412 - val_accuracy: 0.9531 epoch 10/10 [.....] - loss: 0.3686/step - loss: 0.0954 - accuracy: 0.9655 - val_loss: 0.0905 - val_accuracy: 0.9745 </pre>

Model Summary

```
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

=====
Total params: 896
Trainable params: 896
Non-trainable params: 0
=====

Accuracy :

```
Epoch 1/10
225/225 [=====] - 96s 425ms/step - loss: 1.1095 - accuracy: 0.7829 - val_loss: 0.3157 - val_accuracy: 0.8861
Epoch 2/10
225/225 [=====] - 88s 393ms/step - loss: 0.2825 - accuracy: 0.9042 - val_loss: 0.3015 - val_accuracy: 0.9075
Epoch 3/10
225/225 [=====] - 85s 375ms/step - loss: 0.2032 - accuracy: 0.9303 - val_loss: 0.2203 - val_accuracy: 0.9288
Epoch 4/10
225/225 [=====] - 84s 374ms/step - loss: 0.1576 - accuracy: 0.9463 - val_loss: 0.2424 - val_accuracy: 0.9164
Epoch 5/10
225/225 [=====] - 84s 372ms/step - loss: 0.1719 - accuracy: 0.9389 - val_loss: 0.1330 - val_accuracy: 0.9632
Epoch 6/10
225/225 [=====] - 85s 376ms/step - loss: 0.1240 - accuracy: 0.9580 - val_loss: 0.1340 - val_accuracy: 0.9573
Epoch 7/10
225/225 [=====] - 87s 388ms/step - loss: 0.1235 - accuracy: 0.9591 - val_loss: 0.1638 - val_accuracy: 0.9478
Epoch 8/10
225/225 [=====] - 83s 371ms/step - loss: 0.1012 - accuracy: 0.9643 - val_loss: 0.1468 - val_accuracy: 0.9561
Epoch 9/10
225/225 [=====] - 83s 367ms/step - loss: 0.0967 - accuracy: 0.9655 - val_loss: 0.1412 - val_accuracy: 0.9531
Epoch 10/10
225/225 [=====] - 83s 369ms/step - loss: 0.0954 - accuracy: 0.9655 - val_loss: 0.0905 - val_accuracy: 0.9745
```