Performance Test

| Date | 18 November 2022 |
|--------------------------|--|
| Team ID PNT2022TMID44903 | |
| Project Name | AI-based localization and classification of skin disease with erythema |
| Maximum Marks | 10 Marks |

Model Performance Testing:

Project team shall fill the following information in model performance testing.

| S.No. | Parameter | Values | Screenshot |
|-------|---------------|---|--|
| 1. | Model Summary | Total params: 896 Trainable params: 896 Non-trainable params: 0 | model.summary() Model: "sequential" Layer (type) |
| 2. | Accuracy | Training Accuracy – 96.55 Validation Accuracy – 97.45 | Post 1/39 1981 1985 19 |

Model Summary

model.summary()

Model: "sequential"

| Layer (type) | Output Shape | Param # |
|--|----------------------|---------|
| conv2d (Conv2D) | (None, 126, 126, 32) | 896 |
| <pre>max_pooling2d (MaxPooling2D)</pre> | (None, 63, 63, 32) | 0 |
| flatten (Flatten) | (None, 127008) | 0 |

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

Accuracy

model.fit generator(x train, steps per epoch=len(x train), validation data=x test, validation steps=len(x test), epochs=10)

```
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
Epoch 5/10
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
0.9745
```