Project Development Phase
Model Performance Test

Date	7 Nov 2023
Team ID	591762
Project Name	CrimeVision: Advanced Crime Classification with Deep Learning

Model Performance Testing:

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

Parameter	Values	Screenshot
Model Summary	Total params: 7,170,510 Trainable params: 5,586,254 Non-trainable params: 1,584,256	29084464/29084464 [==============================] - 0s 0us/step Model: "sequential" Layer (type) Output Shape Param # densenet121 (Functional) (None, 2, 2, 1024) 7037504 global_average_pooling2d ((None, 1024) 0 GlobalAveragePooling2D) dense (Dense) (None, 128) 131200 dropout (Dropout) (None, 128) 0 classification (Dense) (None, 14) 1806 Total params: 7170510 (27.35 MB) Trainable params: 5586254 (21.31 MB) Non-trainable params: 1584256 (6.04 MB)

| Accuracy | Epoch 1:<br><br>Training accuracy: 0.9991<br>Validation accuracy: 0.9998<br>Epoch 2:<br><br>Training accuracy: 0.9997<br>Validation accuracy: 0.9998<br>Epoch 3:<br><br>Training accuracy: 0.9998<br>Validation accuracy: 0.9999<br>Epoch 4:<br><br>Training accuracy: 0.9999<br>Validation accuracy: 0.9999<br>Epoch 5:<br><br>Training accuracy: 0.9999<br>Validation accuracy: 0.9999 | ```
Epoch 1/5
7915/7915 [==============================] - 1698s 205ms/step - loss: 0.0610 - auc: 0.9991 - val_loss: 0.0180 - val_auc: 0.9998
Epoch 2/5
7915/7915 [==============================] - 1535s 194ms/step - loss: 0.0179 - auc: 0.9997 - val_loss: 0.0114 - val_auc: 0.9998
Epoch 3/5
7915/7915 [==============================] - 1547s 195ms/step - loss: 0.0121 - auc: 0.9998 - val_loss: 0.0079 - val_auc: 0.9999
Epoch 4/5
7915/7915 [==============================] - 1497s 189ms/step - loss: 0.0097 - auc: 0.9999 - val_loss: 0.0071 - val_auc: 0.9999
Epoch 5/5
7915/7915 [==============================] - 1457s 184ms/step - loss: 0.0084 - auc: 0.9999 - val_loss: 0.0077 - val_auc: 0.9999
``` |