Open in Colab

Create a connection for google Drive and google colab

```
import os
from pydrive.auth import GoogleAuth
from pydrive.drive import GoogleDrive
from google.colab import auth
from oauth2client.client import GoogleCredentials


auth.authenticate_user()
gauth = GoogleAuth()
gauth.credentials = GoogleCredentials.get_application_default()
drive = GoogleDrive(gauth)


# shearable link id of the file in the google drive
download = drive.CreateFile({'id': '1xX6BJskLTQmOwu4N7icPXPGFuSMu_8gq'})
download1 = drive.CreateFile({'id': '1QJBbApwvJPJpUeT708sMW5Sg4u0nMktF'})

#Download that file into google colab
download.GetContentFile('My Dataset.zip')
download1.GetContentFile('sample.zip')
```

Create a connection for accessing the colab file system

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Go to this URL in a browser: https://accounts.google.com/o/oauth2/auth?client_

Enter your authorization code:
··********··
Mounted at /content/drive
```

command for to see the list of files in google colab file syst

```
!ls
```

```
adc.json   drive   'My Dataset.zip'   sample_data   sample.zip
```

Unzip the zip file for accessing the image files

```
#unzip the files in the colab file system
!unzip "/content/My Dataset.zip" -d "/content/dataset"
!unzip "/content/sample.zip" -d "/content/sample"
```

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```

```
!ls
```

```
adc.json   drive             sample        sample.zip
dataset   'My Dataset.zip'   sample_data
```

Image preprocessing technique(Resizing image)

```
import os
from PIL import Image
import sys

#Directories in which contain our image files
directory_list =  [ "/content/dataset/My Dataset/test/forged",
                    "/content/dataset/My Dataset/test/genuine",
                    "/content/dataset/My Dataset/train/forged",
                    "/content/dataset/My Dataset/train/genuine",
                    "/content/dataset/My Dataset/validation/forged",
                    "/content/dataset/My Dataset/validation/genuine"
                  ]

#processing each image and resizing that image and save into the same location
for directory in directory_list:
  for file_name in os.listdir(directory):
    print("processing %s" % file_name)
    image = Image.open(os.path.join(directory, file_name))
    newdim = (224,224)
    output = image.resize(newdim,Image.ANTIALIAS)
    output_file_name = os.path.join(directory, file_name)
    output.save(output_file_name,quality = 90)

print("ALL DONE")
```

```
processing 04_0116062.PNG
processing 02_0126060.PNG
processing 02_0203064.PNG
processing NFI-00302018.png
processing NFI-00102027.PNG
processing NFI-00102030.PNG
processing 04_0207054.PNG
processing NFI-00702011.png
processing 01_0201062.PNG
processing 01_0207053.PNG
processing 02_0110058.PNG
processing NFI-01205021.png
processing 03_0104063.PNG
processing 02_0207052.PNG
processing 03_0109052.PNG
processing NFI-02501010.png
processing 02_0102054.PNG
processing 03_0111060.PNG
processing NFI-00303002.png
processing 02_0212067.PNG
processing 02_0124068.PNG
processing 03_0126060.PNG
processing 02_0115053.PNG
processing 03_0109062.PNG
processing NFI-00704011.png
processing 02_0201062.PNG
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processing 04_0106052.PNG
processing 01_0206061.PNG
processing 02_0206061.PNG
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processing 02_0108063.PNG
processing NFI-00401013.png
processing 03_0125050.PNG
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ALL DONE
```

Importing libraries

```
import pandas as pd
import numpy as np
import itertools
import keras
from sklearn import metrics
from sklearn.metrics import confusion_matrix
from keras.preprocessing.image import ImageDataGenerator, img_to_array, load_img
from keras.models import Sequential
from keras import optimizers
from keras.preprocessing import image
from keras.layers import Dropout, Flatten, Dense
```

```
from keras import applications
from keras.utils.np_utils import to_categorical
from keras.callbacks import EarlyStopping, ModelCheckpoint
import matplotlib.pyplot as plt
import matplotlib.image as mpimg
from sklearn.utils.multiclass import unique_labels
from keras import regularizers
%matplotlib inline
import math
import datetime
import time

np.set_printoptions(threshold=sys.maxsize)
```

```
Using TensorFlow backend.
```

The default version of TensorFlow in Colab will soon switch to TensorFlow 2.x.
We recommend you upgrade now or ensure your notebook will continue to use TensorFlow 1.x via the %te

Declaring variables

like batch size,no of epochs,weight file name(.h5 file),image

1 training iteration = 1 epoch = Forward pass + Backpropaga

```
#Default dimensions we found online
img_width, img_height = 224,224

#Create a bottleneck file
top_model_weights_path = 'bottleneck_fc_model.h5'

# loading up our datasets
train_data_dir = '/content/dataset/My Dataset/train'
validation_data_dir = '/content/dataset/My Dataset/validation'
test_data_dir = '/content/dataset/My Dataset/test'

# batch size used by flow_from_directory and predict_generator
batch_size = 50

#No of training iterations
epochs = 18
```

Importing the VGG16 model

```
vgg16 = applications.vgg16.VGG16(include_top=False, weights='imagenet')
```

```
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WARNING:tensorflow:From /usr/local/lib/python3.6/dist-packages/keras/backend/t

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Downloading data from https://github.com/fchollet/deep-learning-models/release
58892288/58889256 [==============================] - 1s 0us/step
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```

Extracting the image features by using vgg16 model

Features stored in the form of a weight matrix and store that .npy file

```
start = datetime.datetime.now()

datagen = ImageDataGenerator(rescale=1. / 255)

#Training Data
generator = datagen.flow_from_directory(
     train_data_dir,
     target_size=(img_width, img_height),
     batch_size=batch_size,
     class_mode=None,
     shuffle=False)
nb_train_samples = len(generator.filenames)
num_classes = len(generator.class_indices)
predict_size_train = int(math.ceil(nb_train_samples / batch_size))
"""print(nb_train_samples)
print(num_classes)
print(predict_size_train)"""
bottleneck_features_train = vgg16.predict_generator(generator, predict_size_trai
np.save('bottleneck_features_train.npy', bottleneck_features_train)
```

```
# Validation data

generator = datagen.flow_from_directory(
     validation_data_dir,
     target_size=(img_width, img_height),
     batch_size=batch_size,
     class_mode=None,
     shuffle=False)
nb_validation_samples = len(generator.filenames)
predict_size_validation = int(math.ceil(nb_validation_samples / batch_size))
"""print(nb_validation_samples)
print(num_classes)
print(predict_size_validation)"""
bottleneck_features_validation = vgg16.predict_generator(
     generator, predict_size_validation)
np.save('bottleneck_features_validation.npy', bottleneck_features_validation)




# Test Data

generator = datagen.flow_from_directory(
     test_data_dir,
     target_size=(img_width, img_height),
     batch_size=batch_size,
     class_mode=None,
     shuffle=False)
nb_test_samples = len(generator.filenames)
predict_size_test = int(math.ceil(nb_test_samples / batch_size))
"""print(nb_test_samples)
print(num_classes)
print(predict_size_test)"""
bottleneck_features_test = vgg16.predict_generator(
     generator, predict_size_test)
#print(bottleneck_features_test)
np.save('bottleneck_features_test.npy', bottleneck_features_test)


end= datetime.datetime.now()
elapsed= end-start
print ('Time: ', elapsed)
```

```
Found 6262 images belonging to 2 classes.
Found 27 images belonging to 2 classes.
Found 1566 images belonging to 2 classes.
Time:  0:01:33.553994
```

Load features and mapping to respective labels

```
#Training Data
generator = datagen.flow_from_directory(
     train_data_dir,
     target_size=(img_width, img_height),
     batch_size=batch_size,
     class_mode=None,
     shuffle=False)
nb_train_samples = len(generator.filenames)
num_classes = len(generator.class_indices)
predict_size_train = int(math.ceil(nb_train_samples / batch_size))
"""print(nb_train_samples)
print(num_classes)
print(predict_size_train)"""
bottleneck_features_train = vgg16.predict_generator(generator, predict_size_trai
np.save('bottleneck_features_train.npy', bottleneck_features_train)




# Validation data

generator = datagen.flow_from_directory(
     validation_data_dir,
     target_size=(img_width, img_height),
     batch_size=batch_size,
     class_mode=None,
     shuffle=False)
nb_validation_samples = len(generator.filenames)
predict_size_validation = int(math.ceil(nb_validation_samples / batch_size))
"""print(nb_validation_samples)
print(num_classes)
print(predict_size_validation)"""
bottleneck_features_validation = vgg16.predict_generator(
     generator, predict_size_validation)
np.save('bottleneck_features_validation.npy', bottleneck_features_validation)




# Test Data

generator = datagen.flow_from_directory(
     test_data_dir,
     target_size=(img_width, img_height),
     batch_size=batch_size,
     class_mode=None,
     shuffle=False)
nb_test_samples = len(generator.filenames)
predict_size_test = int(math.ceil(nb_test_samples / batch_size))
"""print(nb_test_samples)
print(num_classes)
print(predict_size_test)"""
bottleneck_features_test = vgg16.predict_generator(
     generator, predict_size_test)
#print(bottleneck_features_test)
np.save('bottleneck_features_test.npy', bottleneck_features_test)
```

```
np.save('bottleneck_features_test.npy', bottleneck_features_test)
```

```
Found 6262 images belonging to 2 classes.
Found 27 images belonging to 2 classes.
Found 1566 images belonging to 2 classes.
```

```
start = datetime.datetime.now()

#training data
generator_top = datagen.flow_from_directory(
         train_data_dir,
         target_size=(img_width, img_height),
         batch_size=batch_size,
         class_mode=None,
         shuffle=False)

nb_train_samples = len(generator_top.filenames)
num_classes = len(generator_top.class_indices)
# load the bottleneck features saved earlier
train_data = np.load('bottleneck_features_train.npy')
# get the class lebels for the training data, in the original order
train_labels = generator_top.classes
train_labels1 = train_labels
# convert the training labels to categorical vectors
train_labels = to_categorical(train_labels, num_classes=num_classes)



#validation data
generator_top = datagen.flow_from_directory(
         validation_data_dir,
         target_size=(img_width, img_height),
         batch_size=batch_size,
         class_mode=None,
         shuffle=False)
nb_validation_samples = len(generator_top.filenames)
validation_data = np.load('bottleneck_features_validation.npy')
validation_labels = generator_top.classes
validation_labels1 = validation_labels
#print(validation_labels)
validation_labels = to_categorical(validation_labels, num_classes=num_classes)
#print(validation_labels)



#testing data
generator_top = datagen.flow_from_directory(
         test_data_dir,
         target_size=(img_width, img_height),
         batch_size=batch_size,
         class_mode=None,
         shuffle=False)
nb_test_samples = len(generator_top.filenames)
test_data = np.load('bottleneck_features_test.npy')
test_labels = generator_top.classes
```

```
test_labels1 = test_labels
#print(test_labels)
test_labels = to_categorical(test_labels, num_classes=num_classes)
#print(test_labels)

print()
print()
print()
print("Input to our classification neural network")
input_shape=train_data.shape[:]
print(input_shape)

print()
print()
print()
end= datetime.datetime.now()
elapsed= end-start
print ('Time: ', elapsed)
```

```
Found 6262 images belonging to 2 classes.
Found 27 images belonging to 2 classes.
Found 1566 images belonging to 2 classes.



Input to our classification neural network
(6262, 7, 7, 512)



Time:  0:00:00.661294
```

Finetuning the vgg16 model

```
start = datetime.datetime.now()

#Creating our classification model for our dataset(Contain 2 labels:- Forged and
model = Sequential()
model.add(Flatten(input_shape=train_data.shape[1:]))
model.add(Dense(100))
model.add(keras.layers.LeakyReLU(alpha=0.3))
model.add(Dropout(0.5))
model.add(Dense(50))
model.add(keras.layers.LeakyReLU(alpha=0.3))
model.add(Dropout(0.5))
model.add(Dense(num_classes, activation='sigmoid'))

#Initiate our model with necessary parameters
model.compile(loss='binary_crossentropy',
              optimizer=optimizers.rmsprop(lr=1e-4),
              metrics=['acc'])
#code for earlystopping
callbacks = [EarlyStopping(monitor='val_loss', patience=5,verbose=1,mode='min'),
```

```
               ModelCheckpoint(filepath=top_model_weights_path, monitor='val_loss'

#train the model with train data and validate with validation data
history = model.fit(train_data, train_labels,
      epochs=22,
      callbacks = callbacks,
      batch_size = batch_size,
      verbose=1,
      validation_data=(validation_data, validation_labels))

print()
print()
print()
#model.evaluate returns the loss value & metrics values for the model.
(eval_loss, eval_accuracy) = model.evaluate(
 validation_data, validation_labels, batch_size=batch_size, verbose=1)
print("[INFO] validation accuracy: {:.2f}%".format(eval_accuracy * 100))
print("[INFO] validation Loss: {}".format(eval_loss))
print("[INFO] train acc: {}".format(history.history['acc'][-1]*100))
print("[INFO] train loss: {}".format(history.history['loss'][-1]*100))



print()
print()
print()
end= datetime.datetime.now()
elapsed= end-start
print ('Time: ', elapsed)
```

```
Train on 6262 samples, validate on 27 samples
Epoch 1/22
6262/6262 [==============================] - 2s 255us/step - loss: 0.6410 - ac

Epoch 00001: val_loss improved from inf to 0.64184, saving model to bottleneck
Epoch 2/22
6262/6262 [==============================] - 1s 196us/step - loss: 0.5177 - ac

Epoch 00002: val_loss did not improve from 0.64184
Epoch 3/22
6262/6262 [==============================] - 1s 194us/step - loss: 0.4534 - ac

Epoch 00003: val_loss improved from 0.64184 to 0.57108, saving model to bottle
Epoch 4/22
6262/6262 [==============================] - 1s 196us/step - loss: 0.3947 - ac

Epoch 00004: val_loss did not improve from 0.57108
Epoch 5/22
6262/6262 [==============================] - 1s 195us/step - loss: 0.3433 - ac

Epoch 00005: val_loss improved from 0.57108 to 0.52900, saving model to bottle
Epoch 6/22
6262/6262 [==============================] - 1s 197us/step - loss: 0.2991 - ac

Epoch 00006: val_loss improved from 0.52900 to 0.50999, saving model to bottle
Epoch 7/22
6262/6262 [==============================] - 1s 195us/step - loss: 0.2730 - ac

Epoch 00007: val_loss did not improve from 0.50999
Epoch 8/22
6262/6262 [==============================] - 1s 194us/step - loss: 0.2407 - ac

Epoch 00008: val_loss improved from 0.50999 to 0.29652, saving model to bottle
Epoch 9/22
6262/6262 [==============================] - 1s 194us/step - loss: 0.2239 - ac

Epoch 00009: val_loss improved from 0.29652 to 0.28794, saving model to bottle
Epoch 10/22
6262/6262 [==============================] - 1s 198us/step - loss: 0.2017 - ac

Epoch 00010: val_loss improved from 0.28794 to 0.20695, saving model to bottle
Epoch 11/22
6262/6262 [==============================] - 1s 196us/step - loss: 0.1879 - ac

Epoch 00011: val_loss did not improve from 0.20695
Epoch 12/22
6262/6262 [==============================] - 1s 195us/step - loss: 0.1705 - ac

Epoch 00012: val_loss improved from 0.20695 to 0.18494, saving model to bottle
Epoch 13/22
6262/6262 [==============================] - 1s 194us/step - loss: 0.1529 - ac

Epoch 00013: val_loss improved from 0.18494 to 0.17510, saving model to bottle
Epoch 14/22
6262/6262 [==============================] - 1s 196us/step - loss: 0.1497 - ac

Epoch 00014: val_loss did not improve from 0.17510
Epoch 15/22
6262/6262 [==============================] - 1s 195us/step - loss: 0.1303 - ac

Epoch 00015: val_loss did not improve from 0.17510
```

```
Epoch 16/22
6262/6262 [==============================] - 1s 193us/step - loss: 0.1270 - ac

Epoch 00016: val_loss improved from 0.17510 to 0.17340, saving model to bottle
Epoch 17/22
6262/6262 [==============================] - 1s 194us/step - loss: 0.1156 - ac

Epoch 00017: val_loss improved from 0.17340 to 0.15344, saving model to bottle
Epoch 18/22
6262/6262 [==============================] - 1s 193us/step - loss: 0.1119 - ac

Epoch 00018: val_loss improved from 0.15344 to 0.12462, saving model to bottle
Epoch 19/22
6262/6262 [==============================] - 1s 195us/step - loss: 0.0970 - ac

Epoch 00019: val_loss did not improve from 0.12462
Epoch 20/22
6262/6262 [==============================] - 1s 196us/step - loss: 0.1020 - ac

Epoch 00020: val_loss did not improve from 0.12462
Epoch 21/22
6262/6262 [==============================] - 1s 194us/step - loss: 0.0798 - ac

Epoch 00021: val_loss did not improve from 0.12462
Epoch 22/22
6262/6262 [==============================] - 1s 194us/step - loss: 0.0852 - ac

Epoch 00022: val_loss improved from 0.12462 to 0.08202, saving model to bottle



27/27 [==============================] - 0s 140us/step
[INFO] validation accuracy: 96.30%
[INFO] validation Loss: 0.08202315866947174
[INFO] train acc: 96.98179540486429
[INFO] train loss: 8.523617240953364



Time:  0:00:28.655089
```

Confusion matrix for train ,test and validation data

```
print(train_labels)
predictions = model.predict(train_data,batch_size,verbose = 1)
print(predictions)
values = model.predict_classes(train_data,batch_size,verbose = 1)
values
```

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 [9.99482095e-01 3.39210033e-04]
 [8.74828517e-01 8.97794664e-02]
 [7.78961897e-01 1.57970309e-01]
 [9.99985099e-01 6.91413879e-06]
 [8.93348217e-01 7.71428049e-02]
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[9.99504328e-01 2.31117010e-04]
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```

```
cm = confusion_matrix(train_labels1,values)
cm
#generator_top.class_indices
```

```
array([[3531,  135],
       [  13, 2583]])
```

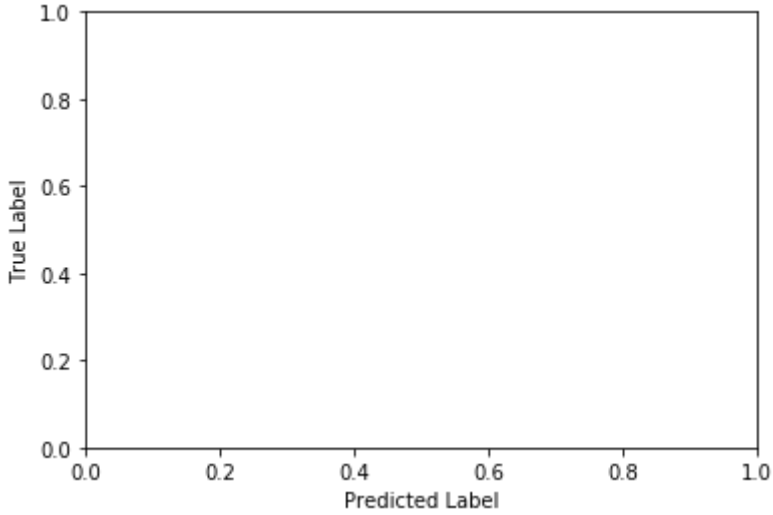
Function for confusion matrix

```
def plot_confusion_matrix(cm,classes,normalize=False,cmap=plt.cm.Blues):
    classes = classes
    print(cm.shape[0])
    print(cm.shape[1])
    plt.imshow(cm,cmap=cmap)
    plt.colorbar()
    tick_marks = np.arange(len(classes))
    plt.xticks(tick_marks,classes,rotation=0,size="x-large")
    plt.yticks(tick_marks,classes,size="x-large",ma="center")
    if normalize:
        cm = cm.astype('float') / cm.sum(axis=1)[:, np.newaxis]
        print("Normalized confusion matrix")
    else:
        print('Confusion matrix, without normalization')
    print(cm)

    thresh = cm.max() /2.
    for i in range(cm.shape[0]):
        for j in range(cm.shape[1]):
           plt.text(j,i,cm[i, j],ma="center",color="white",bbox=dict(facecolor='

plt.tight_layout()
plt.ylabel("True Label")
plt.xlabel("Predicted Label")
```

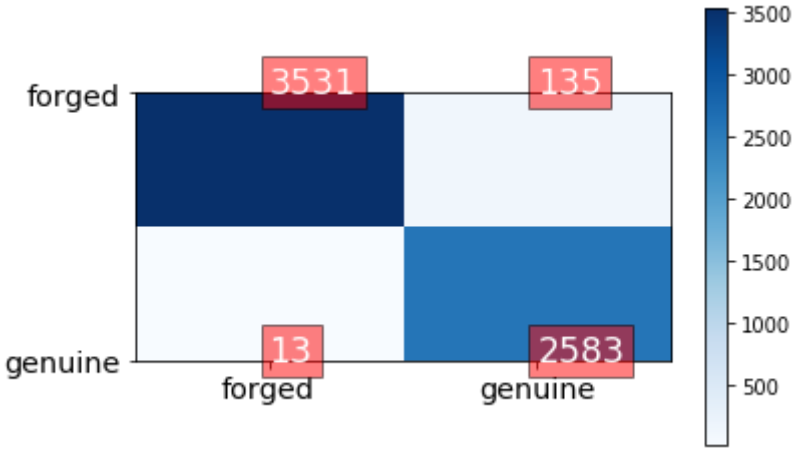
```
Text(0.5, 0, 'Predicted Label')
```



Confusion matrix for train data

```
plot_confusion_matrix(confusion_matrix(train_labels1,values),generator_top.class_
```

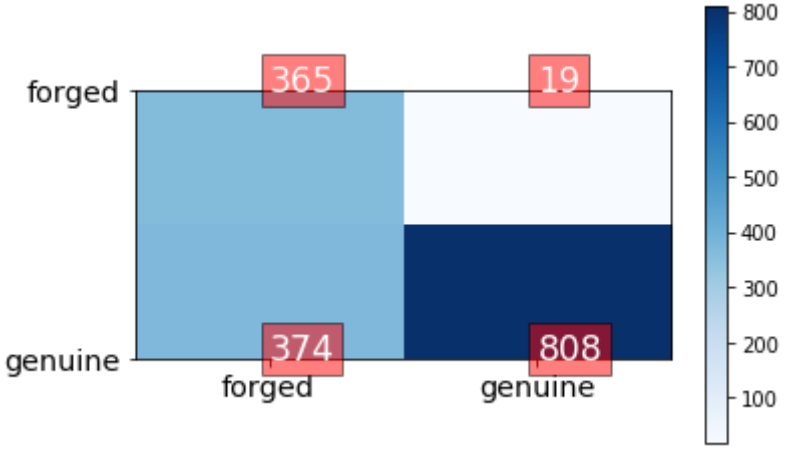
```
2
2
Confusion matrix, without normalization
[[3531  135]
 [  13 2583]]
```



Confusion matrix for test data

```
values1 = model.predict_classes(test_data,batch_size,verbose = 1)
plot_confusion_matrix(confusion_matrix(test_labels1,values1),generator_top.class_
```

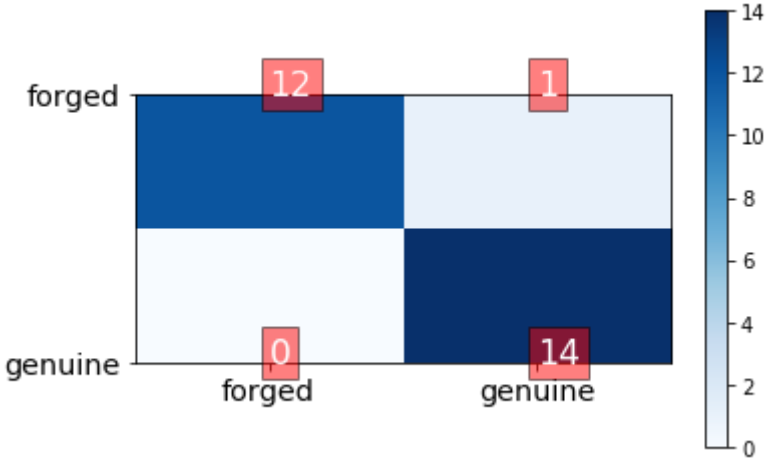
```
1566/1566 [==============================] - 0s 89us/step
2
2
Confusion matrix, without normalization
[[365  19]
 [374 808]]
```



Confusion matrix for validation data

```
values2 = model.predict_classes(validation_data,batch_size,verbose = 1)
plot_confusion_matrix(confusion_matrix(validation_labels1,values2),generator_top
```

```
27/27 [==============================] - 0s 153us/step
2
2
Confusion matrix, without normalization
[[12  1]
 [ 0 14]]
```



Classification model summary

```
for layer in model.layers:
  print(layer," ",layer.input_shape)
```

```
<keras.layers.core.Flatten object at 0x7fe368e38f98>   (None, 7, 7, 512)
<keras.layers.core.Dense object at 0x7fe368e38fd0>   (None, 25088)
<keras.layers.advanced_activations.LeakyReLU object at 0x7fe368eb45c0>   (None
<keras.layers.core.Dropout object at 0x7fe368e49860>   (None, 100)
<keras.layers.core.Dense object at 0x7fe368e49128>   (None, 100)
<keras.layers.advanced_activations.LeakyReLU object at 0x7fe368e3de80>   (None
<keras.layers.core.Dropout object at 0x7fe368e40d68>   (None, 50)
<keras.layers.core.Dense object at 0x7fe368e40dd8>   (None, 50)
```

```
model.summary()
```

```
Model: "sequential_2"
_________________________________________________________________
Layer (type)                 Output Shape              Param #
=================================================================
flatten_2 (Flatten)          (None, 25088)             0
_________________________________________________________________
dense_4 (Dense)              (None, 100)               2508900
_________________________________________________________________
leaky_re_lu_3 (LeakyReLU)    (None, 100)               0
_________________________________________________________________
dropout_3 (Dropout)          (None, 100)               0
_________________________________________________________________
dense_5 (Dense)              (None, 50)                5050
_________________________________________________________________
leaky_re_lu_4 (LeakyReLU)    (None, 50)                0
_________________________________________________________________
dropout_4 (Dropout)          (None, 50)                0
_________________________________________________________________
dense_6 (Dense)              (None, 2)                 102
=================================================================
Total params: 2,514,052
Trainable params: 2,514,052
Non-trainable params: 0
_________________________________________________________________
```

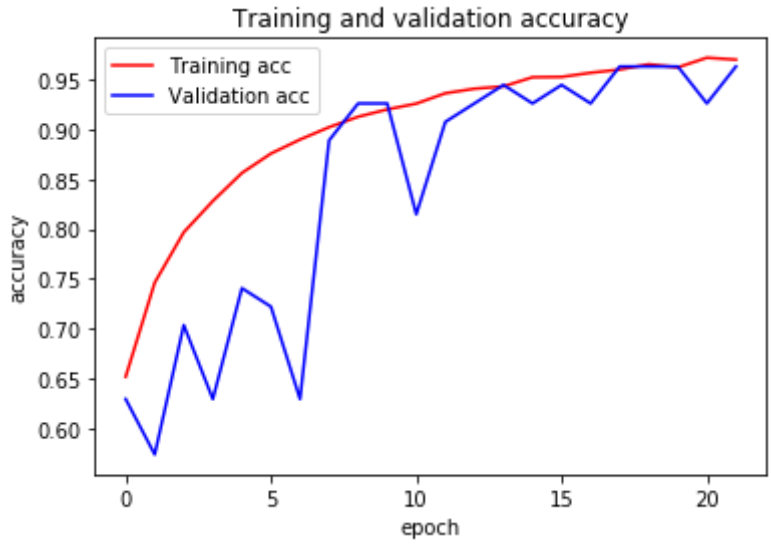
Visualising through graphs

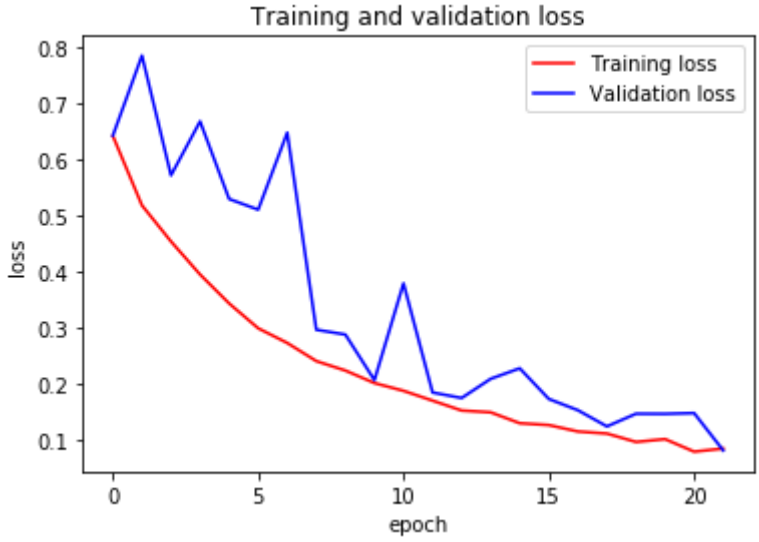
```
acc = history.history['acc']
val_acc = history.history['val_acc']
loss = history.history['loss']
val_loss = history.history['val_loss']

epochs = range(len(acc))

#Graph for training accuracy vs validation accuracy
plt.plot(epochs, acc, 'r', label='Training acc')
plt.plot(epochs, val_acc, 'b', label='Validation acc')
plt.title('Training and validation accuracy')
plt.ylabel('accuracy')
plt.xlabel('epoch')
plt.legend()
plt.figure()
```

```
#Graph for training loss vs validation loss
plt.plot(epochs, loss, 'r', label='Training loss')
plt.plot(epochs, val_loss, 'b', label='Validation loss')
plt.title('Training and validation loss')
plt.ylabel('loss')
plt.xlabel('epoch')
plt.legend()
plt.show()
```





Evaluating the model

```
model.evaluate(test_data, test_labels)
```

```
1566/1566 [==============================] - 0s 117us/step
[1.057561849383102, 0.7503192851826606]
```

predict the signature image file

```
#Preprocess the predicted image
def read_image(file_path):
```

```
    print("[INFO] loading and preprocessing image...")
    image = load_img(file_path, target_size=(224, 224))
    image = img_to_array(image)
    image = np.expand_dims(image, axis=0)
    image /= 255.
    return image

#function for prediction for the given image using vgg16.predict() function
def test_single_image(path):
    clas = ['forged','genuine']
    images = read_image(path)
    time.sleep(.5)
    bt_prediction = vgg16.predict(images)
    preds = model.predict_proba(bt_prediction)
    for idx, clas, x in zip(range(0,4), clas , preds[0]):
        print("ID: {}, Label: {} {}%".format(idx, clas, round(x*100,2) ))
    print('Final Decision:')
    time.sleep(.5)
    for x in range(3):
        print('.'*(x+1))
        time.sleep(.2)
    class_predicted = model.predict_classes(bt_prediction)
    class_dictionary = generator_top.class_indices
    inv_map = {v: k for k, v in class_dictionary.items()}
    print("ID: {}, Label: {}".format(class_predicted[0], inv_map[class_predicted
```

prediction of 7 outsampled images

2 are misclassified and 5 are properly classified

```
test_single_image("/content/sample/sample/NISDCC-001_001_001_6g.PNG")
```

```
[INFO] loading and preprocessing image...
ID: 0, Label: forged 34.28%
ID: 1, Label: genuine 70.75%
Final Decision:
.
..
...
ID: 1, Label: genuine
```

```
path = "/content/sample/sample/NISDCC-002_002_002_6g.PNG"
test_single_image(path)
```

```
[INFO] loading and preprocessing image...
ID: 0, Label: forged 1.32%
ID: 1, Label: genuine 99.25%
Final Decision:
.
..
...
ID: 1, Label: genuine
```

```
test_single_image("/content/sample/sample/NISDCC-001_001_004_6g.PNG")
```

```
[INFO] loading and preprocessing image...
ID: 0, Label: forged 13.11%
ID: 1, Label: genuine 90.55%
Final Decision:
.
..
...
ID: 1, Label: genuine
```

```
test_single_image("/content/sample/sample/NISDCC-002_002_002_6g.PNG")
```

```
[INFO] loading and preprocessing image...
ID: 0, Label: forged 1.32%
ID: 1, Label: genuine 99.25%
Final Decision:
.
..
...
ID: 1, Label: genuine
```

```
test_single_image("/content/sample/sample/NISDCC-003_003_003_6g.PNG")
```

```
[INFO] loading and preprocessing image...
ID: 0, Label: forged 5.92%
ID: 1, Label: genuine 95.98%
Final Decision:
.
..
...
ID: 1, Label: genuine
```

```
test_single_image("/content/sample/sample/NISDCC-004_004_004_6g.PNG")
```

```
[INFO] loading and preprocessing image...
ID: 0, Label: forged 28.03%
ID: 1, Label: genuine 69.78%
Final Decision:
.
..
...
ID: 1, Label: genuine
```

```
test_single_image("/content/sample/sample/NISDCC-005_005_005_6g.PNG")
```

```
[INFO] loading and preprocessing image...
ID: 0, Label: forged 0.03%
ID: 1, Label: genuine 99.98%
Final Decision:
.
..
...
ID: 1, Label: genuine
```