

phishing-website-detection

April 2, 2024

```
[155]: import numpy as np
import pandas as pd
import tensorflow as tf
from tensorflow import keras
from tensorflow.keras import layers
import matplotlib.pyplot as plt
from sklearn.model_selection import train_test_split
from sklearn.metrics import confusion_matrix, \
    classification_report, ConfusionMatrixDisplay
```

0.1 LOADING DATASET

```
[156]: df = pd.read_csv('/kaggle/input/web-page-phishing-detection-dataset/
    dataset_phishing.csv')
df.head(10)
```

```
[156]:
```

	url	length_url	\
0	http://www.crestonwood.com/router.php	37	
1	http://shadetreetechnology.com/V4/validation/a...	77	
2	https://support-appleid.com.secureupdate.duila...	126	
3	http://rgipt.ac.in	18	
4	http://www.iracing.com/tracks/gateway-motorspo...	55	
5	http://appleid.apple.com-app.es/	32	
6	http://www.mutuo.it	19	
7	http://www.shadetreetechnology.com/V4/validati...	81	
8	http://vamo aestudiarmedicina.blogspot.com/	42	
9	https://parade.com/425836/joshwigler/the-amazi...	104	

	length_hostname	ip	nb_dots	nb_hyphens	nb_at	nb_qm	nb_and	nb_or	...	\
0	19	0	3	0	0	0	0	0	...	
1	23	1	1	0	0	0	0	0	...	
2	50	1	4	1	0	1	2	0	...	
3	11	0	2	0	0	0	0	0	...	
4	15	0	2	2	0	0	0	0	...	
5	24	0	3	1	0	0	0	0	...	
6	12	0	2	0	0	0	0	0	...	
7	27	1	2	0	0	0	0	0	...	

8	34	0	2	0	0	0	0	0	...
9	10	0	1	10	0	0	0	0	...

	domain_in_title	domain_with_copyright	whois_registered_domain	\
0	0	1	0	
1	1	0	0	
2	1	0	0	
3	1	0	0	
4	0	1	0	
5	1	1	1	
6	0	1	0	
7	1	0	0	
8	1	1	0	
9	1	0	0	

	domain_registration_length	domain_age	web_traffic	dns_record	\
0	45	-1	0	1	
1	77	5767	0	0	
2	14	4004	5828815	0	
3	62	-1	107721	0	
4	224	8175	8725	0	
5	0	-1	0	0	
6	170	7529	0	0	
7	76	5767	0	0	
8	371	7298	0	0	
9	128	9368	6774	0	

	google_index	page_rank	status
0	1	4	legitimate
1	1	2	phishing
2	1	0	phishing
3	0	3	legitimate
4	0	6	legitimate
5	1	0	phishing
6	0	1	legitimate
7	1	2	phishing
8	0	5	legitimate
9	0	5	legitimate

[10 rows x 89 columns]

```
[157]: #label Encoding
from sklearn import preprocessing
le = preprocessing.LabelEncoder()
df['labels'] = le.fit_transform(df['status'])
```

```
[158]: df[['status', 'labels']].head(10)
```

```
[158]:      status  labels
0  legitimate      0
1   phishing      1
2   phishing      1
3  legitimate      0
4  legitimate      0
5   phishing      1
6  legitimate      0
7   phishing      1
8  legitimate      0
9  legitimate      0
```

```
[159]: Y1 = df['labels']
X1 = df.drop(columns = ['url', 'labels', 'status'])
```

```
[160]: X1.head(2)
```

```
[160]:   length_url  length_hostname  ip  nb_dots  nb_hyphens  nb_at  nb_qm  nb_and  \
0          37             19  0         3         0         0         0         0
1          77             23  1         1         0         0         0         0

      nb_or  nb_eq  ...  empty_title  domain_in_title  domain_with_copyright  \
0         0     0  ...             0              0                        1
1         0     0  ...             0              1                        0

      whois_registered_domain  domain_registration_length  domain_age  \
0                             0                          45          -1
1                             0                          77         5767

      web_traffic  dns_record  google_index  page_rank
0                0          1             1          4
1                0          0             1          2

[2 rows x 87 columns]
```

```
[161]: Y1.head(2)
```

```
[161]: 0    0
1    1
Name: labels, dtype: int64
```

```
[162]: #data for learning without features

X2 = df['url']
X2.head(2)
```

```
[162]: 0          http://www.crestonwood.com/router.php
      1    http://shadetreetechnology.com/V4/validation/a...
      Name: url, dtype: object
```

0.2 CREATING DATASET WITH PRIOR FEATURE EXTRACTION

```
[163]: from sklearn.model_selection import train_test_split
      X_train1,X_test1,Y_train1,Y_test1 = train_test_split(X1,Y1,stratify =
      ↪Y1,test_size = 0.2,random_state = 42)
```

```
[164]: X_train1 = np.expand_dims(X_train1, axis=-1)
      X_test1 = np.expand_dims(X_test1, axis=-1)

      X_train1.shape
```

```
[164]: (9144, 87, 1)
```

0.3 CREATING DATASET WITHOUT PRIOR FEATURE EXTRACTION

```
[165]: import nltk
      import re
      from nltk.corpus import stopwords
      from nltk.stem import PorterStemmer
      from sklearn.feature_extraction.text import CountVectorizer
      from sklearn.feature_extraction.text import TfidfVectorizer
```

```
[166]: ps = PorterStemmer()
      corpus_train = []

      def albuementations(X,corpus_t):
          for i in range(len(X)):
              print(i,"/",len(X))
              review = re.sub("[^a-zA-Z]", " ",X[i])
              review = review.lower()
              review = review.split()
              review = [ps.stem(word) for word in review if word not in set(stopwords.
              ↪words("english"))] #TO REMOVE STOP WORDS LIKE THE, A ETC
              review = " ".join(review)
              corpus_t.append(review)
      albuementations(X2,corpus_train)
```

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```
[167]: corpus_train[:4]
```

```
[167]: ['http www crestonwood com router php',  
       'http shadetreetechnolog com v valid aedc ae eabcfa e',  
       'http support appleld com secureupd duilawyeryork com ap e b b b cmd updat  
       dispatch e b b b b local',  
       'http rgipt ac']
```

```
[168]: cv =TfidfVectorizer(max_features = 1000)  
X2 = cv.fit_transform(corpus_train).toarray()
```

```
[169]: X_train2,X_test2,Y_train2,Y_test2 = train_test_split(X2,Y1,stratify =  
↳Y1,test_size = 0.2,random_state = 42)
```

```
[170]: X_train2 = np.expand_dims(X_train2, axis = -1)  
X_test2 = np.expand_dims(X_test2, axis = -1)  
print(X_train2.shape,Y_train2.shape)  
print(X_test2.shape,Y_test2.shape)
```

```
(9144, 1000, 1) (9144,)  
(2286, 1000, 1) (2286,)
```

```
[171]: input_size1 = X_train1[1].shape  
input_size2 = X_train2[2].shape  
input_size1,input_size2
```

```
[171]: ((87, 1), (1000, 1))
```

0.4 Evaluation Helper Functions

```
[172]: def eval_graph(results):  
  
    acc = results.history['accuracy']  
    val_acc = results.history['val_accuracy']  
    epochs = range(len(acc))  
    fig = plt.figure(figsize=(14,7))  
    plt.plot(epochs,acc,'r',label="Training Accuracy")  
    plt.plot(epochs,val_acc,'b',label="Validation Accuracy")  
    plt.legend(loc='upper left')  
    plt.title("ACCURACY GRAPH")  
    plt.show()  
  
    loss = results.history['loss']  
    val_loss = results.history['val_loss']  
    epochs = range(len(loss))  
    fig = plt.figure(figsize=(14,7))  
    plt.plot(epochs,loss,'r',label="Training loss")
```

```
plt.plot(epochs, val_loss, 'b', label="Validation loss")
plt.legend(loc='upper left')
plt.title("LOSS GRAPH")
plt.show()
```

```
[173]: def conf_matrix(X_test, Y_test, model):

        Y_pred = model.predict(X_test)
        Y_pred = Y_pred > 0.5
        cm = confusion_matrix(Y_test, Y_pred)
        disp = ConfusionMatrixDisplay(confusion_matrix=cm)
        disp.plot(cmap = plt.cm.YlGn)
        plt.title('CONFUSION MATRIX')
        plt.show()
```

0.5 CNN MODEL

```
[174]: from keras import Sequential

def CNN(input_size):

    model = keras.Sequential()
    model.add(layers.Input(input_size))
    model.add(layers.Conv1D(filters = 16, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
    model.add(layers.BatchNormalization())
    model.add(layers.MaxPooling1D(pool_size = 2, padding = 'same'))
    model.add(layers.Conv1D(filters = 32, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
    model.add(layers.BatchNormalization())
    model.add(layers.MaxPooling1D(pool_size = 2, padding = 'same'))
    model.add(layers.Conv1D(filters = 64, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
    model.add(layers.BatchNormalization())
    model.add(layers.MaxPooling1D(pool_size = 2, padding = 'same'))
    model.add(layers.Conv1D(filters = 128, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
    model.add(layers.BatchNormalization())
    model.add(layers.MaxPooling1D(pool_size = 2, padding = 'same'))
    model.add(layers.Conv1D(filters = 256, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
```

```

model.add(layers.BatchNormalization())
model.add(layers.MaxPooling1D(pool_size = 2,padding = 'same'))
model.add(layers.Flatten())
model.add(layers.Dropout(0.3))
model.add(layers.Dense(512,activation = 'relu'))
model.add(layers.Dropout(0.3))
model.add(layers.Dense(1,activation = 'sigmoid'))

return model

CNN_model1 = CNN(input_size1)
CNN_model2 = CNN(input_size2)
CNN_model1.summary()
CNN_model2.summary()

```

Model: "sequential_42"

Layer (type)	Output Shape	Param #
conv1d_210 (Conv1D)	(None, 87, 16)	64
dropout_302 (Dropout)	(None, 87, 16)	0
batch_normalization_210 (BatchNormalization)	(None, 87, 16)	64
max_pooling1d_210 (MaxPooling1D)	(None, 44, 16)	0
conv1d_211 (Conv1D)	(None, 44, 32)	1568
dropout_303 (Dropout)	(None, 44, 32)	0
batch_normalization_211 (BatchNormalization)	(None, 44, 32)	128
max_pooling1d_211 (MaxPooling1D)	(None, 22, 32)	0
conv1d_212 (Conv1D)	(None, 22, 64)	6208
dropout_304 (Dropout)	(None, 22, 64)	0
batch_normalization_212 (BatchNormalization)	(None, 22, 64)	256
max_pooling1d_212 (MaxPooling1D)	(None, 11, 64)	0

ing1D)		
conv1d_213 (Conv1D)	(None, 11, 128)	24704
dropout_305 (Dropout)	(None, 11, 128)	0
batch_normalization_213 (BatchNormalization)	(None, 11, 128)	512
max_pooling1d_213 (MaxPooling1D)	(None, 6, 128)	0
conv1d_214 (Conv1D)	(None, 6, 256)	98560
dropout_306 (Dropout)	(None, 6, 256)	0
batch_normalization_214 (BatchNormalization)	(None, 6, 256)	1024
max_pooling1d_214 (MaxPooling1D)	(None, 3, 256)	0
flatten_42 (Flatten)	(None, 768)	0
dropout_307 (Dropout)	(None, 768)	0
dense_92 (Dense)	(None, 512)	393728
dropout_308 (Dropout)	(None, 512)	0
dense_93 (Dense)	(None, 1)	513

```

=====
Total params: 527329 (2.01 MB)
Trainable params: 526337 (2.01 MB)
Non-trainable params: 992 (3.88 KB)

```

```

-----
Model: "sequential_43"

```

Layer (type)	Output Shape	Param #
conv1d_215 (Conv1D)	(None, 1000, 16)	64
dropout_309 (Dropout)	(None, 1000, 16)	0
batch_normalization_215 (BatchNormalization)	(None, 1000, 16)	64

max_pooling1d_215 (MaxPooling1D)	(None, 500, 16)	0
conv1d_216 (Conv1D)	(None, 500, 32)	1568
dropout_310 (Dropout)	(None, 500, 32)	0
batch_normalization_216 (BatchNormalization)	(None, 500, 32)	128
max_pooling1d_216 (MaxPooling1D)	(None, 250, 32)	0
conv1d_217 (Conv1D)	(None, 250, 64)	6208
dropout_311 (Dropout)	(None, 250, 64)	0
batch_normalization_217 (BatchNormalization)	(None, 250, 64)	256
max_pooling1d_217 (MaxPooling1D)	(None, 125, 64)	0
conv1d_218 (Conv1D)	(None, 125, 128)	24704
dropout_312 (Dropout)	(None, 125, 128)	0
batch_normalization_218 (BatchNormalization)	(None, 125, 128)	512
max_pooling1d_218 (MaxPooling1D)	(None, 63, 128)	0
conv1d_219 (Conv1D)	(None, 63, 256)	98560
dropout_313 (Dropout)	(None, 63, 256)	0
batch_normalization_219 (BatchNormalization)	(None, 63, 256)	1024
max_pooling1d_219 (MaxPooling1D)	(None, 32, 256)	0
flatten_43 (Flatten)	(None, 8192)	0
dropout_314 (Dropout)	(None, 8192)	0
dense_94 (Dense)	(None, 512)	4194816

dropout_315 (Dropout)	(None, 512)	0
dense_95 (Dense)	(None, 1)	513

```
=====
Total params: 4328417 (16.51 MB)
Trainable params: 4327425 (16.51 MB)
Non-trainable params: 992 (3.88 KB)
-----
```

0.6 CNN MODEL ON FIRST DATASET

```
[175]: CNN_model1.
        ↪ compile(optimizer='adam', loss='binary_crossentropy', metrics=['accuracy'])

callbacks = [tf.keras.callbacks.ModelCheckpoint('CNN_MODEL_ON_FEATURE_EXTRACTED.
        ↪ h5', verbose=1, save_best_only=True),
              tf.keras.callbacks.EarlyStopping(monitor='val_loss', min_delta=0.
        ↪ 001, patience=30, verbose=1)]
CNN_results_1 = CNN_model1.fit(X_train1, Y_train1, validation_split=0.
        ↪ 2, batch_size=128, epochs=200, callbacks=callbacks)
```

```
Epoch 1/200
54/58 [=====>...] - ETA: 0s - loss: 0.7771 - accuracy:
0.6418
Epoch 1: val_loss improved from inf to 0.71657, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 6s 17ms/step - loss: 0.7760 - accuracy:
0.6431 - val_loss: 0.7166 - val_accuracy: 0.4910
Epoch 2/200
12/58 [=====>...] - ETA: 0s - loss: 0.6791 - accuracy:
0.6764

/opt/conda/lib/python3.10/site-packages/keras/src/engine/training.py:3000:
UserWarning: You are saving your model as an HDF5 file via `model.save()`. This
file format is considered legacy. We recommend using instead the native Keras
format, e.g. `model.save('my_model.keras')`.
  saving_api.save_model(

54/58 [=====>...] - ETA: 0s - loss: 0.5979 - accuracy:
0.7160
Epoch 2: val_loss improved from 0.71657 to 0.71064, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.5943 - accuracy:
0.7178 - val_loss: 0.7106 - val_accuracy: 0.5232
Epoch 3/200
55/58 [=====>..] - ETA: 0s - loss: 0.5196 - accuracy:
0.7574
```


Epoch 3: val_loss did not improve from 0.71064
58/58 [=====] - 1s 11ms/step - loss: 0.5172 - accuracy: 0.7589 - val_loss: 0.7712 - val_accuracy: 0.5249
Epoch 4/200
55/58 [=====>..] - ETA: 0s - loss: 0.4681 - accuracy: 0.7832
Epoch 4: val_loss did not improve from 0.71064
58/58 [=====] - 1s 11ms/step - loss: 0.4687 - accuracy: 0.7829 - val_loss: 0.7868 - val_accuracy: 0.4970
Epoch 5/200
58/58 [=====] - ETA: 0s - loss: 0.4528 - accuracy: 0.7951
Epoch 5: val_loss improved from 0.71064 to 0.70215, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.4528 - accuracy: 0.7951 - val_loss: 0.7022 - val_accuracy: 0.5331
Epoch 6/200
54/58 [=====>...] - ETA: 0s - loss: 0.4261 - accuracy: 0.8080
Epoch 6: val_loss improved from 0.70215 to 0.62231, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.4276 - accuracy: 0.8082 - val_loss: 0.6223 - val_accuracy: 0.5981
Epoch 7/200
54/58 [=====>...] - ETA: 0s - loss: 0.4186 - accuracy: 0.8171
Epoch 7: val_loss improved from 0.62231 to 0.61242, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.4177 - accuracy: 0.8174 - val_loss: 0.6124 - val_accuracy: 0.6069
Epoch 8/200
54/58 [=====>...] - ETA: 0s - loss: 0.4143 - accuracy: 0.8128
Epoch 8: val_loss did not improve from 0.61242
58/58 [=====] - 1s 11ms/step - loss: 0.4115 - accuracy: 0.8142 - val_loss: 0.8670 - val_accuracy: 0.5358
Epoch 9/200
58/58 [=====] - ETA: 0s - loss: 0.4015 - accuracy: 0.8234
Epoch 9: val_loss did not improve from 0.61242
58/58 [=====] - 1s 11ms/step - loss: 0.4015 - accuracy: 0.8234 - val_loss: 0.8384 - val_accuracy: 0.5642
Epoch 10/200
54/58 [=====>...] - ETA: 0s - loss: 0.4021 - accuracy: 0.8225
Epoch 10: val_loss improved from 0.61242 to 0.40086, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.4008 - accuracy:

```

0.8237 - val_loss: 0.4009 - val_accuracy: 0.8365
Epoch 11/200
57/58 [=====>..] - ETA: 0s - loss: 0.3958 - accuracy:
0.8250
Epoch 11: val_loss did not improve from 0.40086
58/58 [=====] - 1s 11ms/step - loss: 0.3956 - accuracy:
0.8252 - val_loss: 0.4803 - val_accuracy: 0.7846
Epoch 12/200
55/58 [=====>..] - ETA: 0s - loss: 0.3810 - accuracy:
0.8290
Epoch 12: val_loss improved from 0.40086 to 0.35897, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.3821 - accuracy:
0.8283 - val_loss: 0.3590 - val_accuracy: 0.8409
Epoch 13/200
53/58 [=====>...] - ETA: 0s - loss: 0.3781 - accuracy:
0.8402
Epoch 13: val_loss improved from 0.35897 to 0.30792, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.3768 - accuracy:
0.8407 - val_loss: 0.3079 - val_accuracy: 0.8639
Epoch 14/200
54/58 [=====>...] - ETA: 0s - loss: 0.3697 - accuracy:
0.8417
Epoch 14: val_loss did not improve from 0.30792
58/58 [=====] - 1s 11ms/step - loss: 0.3704 - accuracy:
0.8414 - val_loss: 0.4401 - val_accuracy: 0.7944
Epoch 15/200
53/58 [=====>...] - ETA: 0s - loss: 0.3732 - accuracy:
0.8389
Epoch 15: val_loss did not improve from 0.30792
58/58 [=====] - 1s 11ms/step - loss: 0.3727 - accuracy:
0.8394 - val_loss: 0.4392 - val_accuracy: 0.7911
Epoch 16/200
55/58 [=====>..] - ETA: 0s - loss: 0.3657 - accuracy:
0.8381
Epoch 16: val_loss did not improve from 0.30792
58/58 [=====] - 1s 11ms/step - loss: 0.3682 - accuracy:
0.8365 - val_loss: 0.3087 - val_accuracy: 0.8693
Epoch 17/200
53/58 [=====>...] - ETA: 0s - loss: 0.3551 - accuracy:
0.8477
Epoch 17: val_loss did not improve from 0.30792
58/58 [=====] - 1s 11ms/step - loss: 0.3552 - accuracy:
0.8468 - val_loss: 0.3681 - val_accuracy: 0.8431
Epoch 18/200
54/58 [=====>...] - ETA: 0s - loss: 0.3519 - accuracy:
0.8440

```

Epoch 18: val_loss improved from 0.30792 to 0.30199, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.3523 - accuracy:
0.8440 - val_loss: 0.3020 - val_accuracy: 0.8721
Epoch 19/200
56/58 [=====>..] - ETA: 0s - loss: 0.3536 - accuracy:
0.8467
Epoch 19: val_loss did not improve from 0.30199
58/58 [=====] - 1s 11ms/step - loss: 0.3536 - accuracy:
0.8462 - val_loss: 0.3069 - val_accuracy: 0.8732
Epoch 20/200
58/58 [=====] - ETA: 0s - loss: 0.3513 - accuracy:
0.8533
Epoch 20: val_loss did not improve from 0.30199
58/58 [=====] - 1s 11ms/step - loss: 0.3513 - accuracy:
0.8533 - val_loss: 0.3031 - val_accuracy: 0.8721
Epoch 21/200
54/58 [=====>...] - ETA: 0s - loss: 0.3430 - accuracy:
0.8508
Epoch 21: val_loss improved from 0.30199 to 0.28578, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.3418 - accuracy:
0.8517 - val_loss: 0.2858 - val_accuracy: 0.8819
Epoch 22/200
53/58 [=====>...] - ETA: 0s - loss: 0.3671 - accuracy:
0.8426
Epoch 22: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3674 - accuracy:
0.8413 - val_loss: 0.3396 - val_accuracy: 0.8442
Epoch 23/200
54/58 [=====>...] - ETA: 0s - loss: 0.3568 - accuracy:
0.8433
Epoch 23: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3548 - accuracy:
0.8444 - val_loss: 0.3089 - val_accuracy: 0.8650
Epoch 24/200
53/58 [=====>...] - ETA: 0s - loss: 0.3477 - accuracy:
0.8482
Epoch 24: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3479 - accuracy:
0.8481 - val_loss: 0.3052 - val_accuracy: 0.8732
Epoch 25/200
58/58 [=====] - ETA: 0s - loss: 0.3435 - accuracy:
0.8510
Epoch 25: val_loss did not improve from 0.28578
58/58 [=====] - 1s 12ms/step - loss: 0.3435 - accuracy:
0.8510 - val_loss: 0.3252 - val_accuracy: 0.8682
Epoch 26/200

55/58 [=====>..] - ETA: 0s - loss: 0.3553 - accuracy: 0.8472
Epoch 26: val_loss did not improve from 0.28578
58/58 [=====] - 1s 12ms/step - loss: 0.3546 - accuracy: 0.8477 - val_loss: 0.2956 - val_accuracy: 0.8830
Epoch 27/200
56/58 [=====>..] - ETA: 0s - loss: 0.3550 - accuracy: 0.8447
Epoch 27: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3534 - accuracy: 0.8454 - val_loss: 0.3118 - val_accuracy: 0.8666
Epoch 28/200
54/58 [=====>...] - ETA: 0s - loss: 0.3379 - accuracy: 0.8517
Epoch 28: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3389 - accuracy: 0.8511 - val_loss: 0.3109 - val_accuracy: 0.8639
Epoch 29/200
53/58 [=====>...] - ETA: 0s - loss: 0.3231 - accuracy: 0.8623
Epoch 29: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3219 - accuracy: 0.8643 - val_loss: 0.3046 - val_accuracy: 0.8622
Epoch 30/200
55/58 [=====>..] - ETA: 0s - loss: 0.3448 - accuracy: 0.8543
Epoch 30: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3428 - accuracy: 0.8550 - val_loss: 0.3008 - val_accuracy: 0.8764
Epoch 31/200
54/58 [=====>...] - ETA: 0s - loss: 0.3394 - accuracy: 0.8605
Epoch 31: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3378 - accuracy: 0.8608 - val_loss: 0.2970 - val_accuracy: 0.8814
Epoch 32/200
54/58 [=====>...] - ETA: 0s - loss: 0.3237 - accuracy: 0.8624
Epoch 32: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3254 - accuracy: 0.8621 - val_loss: 0.2899 - val_accuracy: 0.8748
Epoch 33/200
55/58 [=====>..] - ETA: 0s - loss: 0.3282 - accuracy: 0.8607
Epoch 33: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3292 - accuracy: 0.8604 - val_loss: 0.3002 - val_accuracy: 0.8660
Epoch 34/200

```

54/58 [=====>...] - ETA: 0s - loss: 0.3288 - accuracy:
0.8573
Epoch 34: val_loss did not improve from 0.28578
58/58 [=====] - 1s 11ms/step - loss: 0.3278 - accuracy:
0.8589 - val_loss: 0.3033 - val_accuracy: 0.8633
Epoch 35/200
53/58 [=====>...] - ETA: 0s - loss: 0.3221 - accuracy:
0.8665
Epoch 35: val_loss improved from 0.28578 to 0.27155, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 12ms/step - loss: 0.3206 - accuracy:
0.8667 - val_loss: 0.2715 - val_accuracy: 0.8901
Epoch 36/200
56/58 [=====>..] - ETA: 0s - loss: 0.3146 - accuracy:
0.8684
Epoch 36: val_loss improved from 0.27155 to 0.26851, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 13ms/step - loss: 0.3138 - accuracy:
0.8686 - val_loss: 0.2685 - val_accuracy: 0.8846
Epoch 37/200
58/58 [=====] - ETA: 0s - loss: 0.3163 - accuracy:
0.8690
Epoch 37: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.3163 - accuracy:
0.8690 - val_loss: 0.2721 - val_accuracy: 0.8885
Epoch 38/200
58/58 [=====] - ETA: 0s - loss: 0.3195 - accuracy:
0.8678
Epoch 38: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.3195 - accuracy:
0.8678 - val_loss: 0.2928 - val_accuracy: 0.8781
Epoch 39/200
55/58 [=====>..] - ETA: 0s - loss: 0.3315 - accuracy:
0.8597
Epoch 39: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.3283 - accuracy:
0.8611 - val_loss: 0.2830 - val_accuracy: 0.8814
Epoch 40/200
54/58 [=====>...] - ETA: 0s - loss: 0.5045 - accuracy:
0.7587
Epoch 40: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.5022 - accuracy:
0.7612 - val_loss: 0.4165 - val_accuracy: 0.8272
Epoch 41/200
54/58 [=====>...] - ETA: 0s - loss: 0.4188 - accuracy:
0.8076
Epoch 41: val_loss did not improve from 0.26851
58/58 [=====] - 1s 12ms/step - loss: 0.4171 - accuracy:

```

0.8077 - val_loss: 0.3658 - val_accuracy: 0.8436
Epoch 42/200
54/58 [=====>...] - ETA: 0s - loss: 0.3765 - accuracy: 0.8349
Epoch 42: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.3776 - accuracy: 0.8343 - val_loss: 0.3488 - val_accuracy: 0.8420
Epoch 43/200
57/58 [=====>.] - ETA: 0s - loss: 0.3579 - accuracy: 0.8384
Epoch 43: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.3574 - accuracy: 0.8387 - val_loss: 0.3689 - val_accuracy: 0.8349
Epoch 44/200
54/58 [=====>...] - ETA: 0s - loss: 0.3436 - accuracy: 0.8491
Epoch 44: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.3444 - accuracy: 0.8495 - val_loss: 0.4065 - val_accuracy: 0.8261
Epoch 45/200
57/58 [=====>.] - ETA: 0s - loss: 0.3351 - accuracy: 0.8590
Epoch 45: val_loss did not improve from 0.26851
58/58 [=====] - 1s 13ms/step - loss: 0.3352 - accuracy: 0.8591 - val_loss: 0.4147 - val_accuracy: 0.8130
Epoch 46/200
56/58 [=====>..] - ETA: 0s - loss: 0.3219 - accuracy: 0.8570
Epoch 46: val_loss did not improve from 0.26851
58/58 [=====] - 1s 12ms/step - loss: 0.3220 - accuracy: 0.8570 - val_loss: 0.4211 - val_accuracy: 0.8179
Epoch 47/200
54/58 [=====>...] - ETA: 0s - loss: 0.3225 - accuracy: 0.8624
Epoch 47: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.3212 - accuracy: 0.8630 - val_loss: 0.4312 - val_accuracy: 0.8267
Epoch 48/200
55/58 [=====>..] - ETA: 0s - loss: 0.3196 - accuracy: 0.8615
Epoch 48: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.3187 - accuracy: 0.8619 - val_loss: 0.4499 - val_accuracy: 0.8026
Epoch 49/200
54/58 [=====>...] - ETA: 0s - loss: 0.3042 - accuracy: 0.8675
Epoch 49: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.3062 - accuracy:

0.8668 - val_loss: 0.4333 - val_accuracy: 0.8125
 Epoch 50/200
 57/58 [=====>.] - ETA: 0s - loss: 0.3031 - accuracy:
 0.8702
 Epoch 50: val_loss did not improve from 0.26851
 58/58 [=====] - 1s 11ms/step - loss: 0.3029 - accuracy:
 0.8704 - val_loss: 0.5645 - val_accuracy: 0.7862
 Epoch 51/200
 54/58 [=====>...] - ETA: 0s - loss: 0.3032 - accuracy:
 0.8738
 Epoch 51: val_loss did not improve from 0.26851
 58/58 [=====] - 1s 11ms/step - loss: 0.3032 - accuracy:
 0.8737 - val_loss: 0.4866 - val_accuracy: 0.7966
 Epoch 52/200
 54/58 [=====>...] - ETA: 0s - loss: 0.2938 - accuracy:
 0.8786
 Epoch 52: val_loss did not improve from 0.26851
 58/58 [=====] - 1s 11ms/step - loss: 0.2949 - accuracy:
 0.8774 - val_loss: 0.4111 - val_accuracy: 0.8207
 Epoch 53/200
 58/58 [=====] - ETA: 0s - loss: 0.2878 - accuracy:
 0.8756
 Epoch 53: val_loss did not improve from 0.26851
 58/58 [=====] - 1s 11ms/step - loss: 0.2878 - accuracy:
 0.8756 - val_loss: 0.4521 - val_accuracy: 0.7993
 Epoch 54/200
 53/58 [=====>...] - ETA: 0s - loss: 0.2879 - accuracy:
 0.8757
 Epoch 54: val_loss did not improve from 0.26851
 58/58 [=====] - 1s 11ms/step - loss: 0.2863 - accuracy:
 0.8764 - val_loss: 0.3850 - val_accuracy: 0.8343
 Epoch 55/200
 55/58 [=====>..] - ETA: 0s - loss: 0.2889 - accuracy:
 0.8804
 Epoch 55: val_loss did not improve from 0.26851
 58/58 [=====] - 1s 11ms/step - loss: 0.2869 - accuracy:
 0.8812 - val_loss: 0.4017 - val_accuracy: 0.8256
 Epoch 56/200
 54/58 [=====>...] - ETA: 0s - loss: 0.2839 - accuracy:
 0.8825
 Epoch 56: val_loss did not improve from 0.26851
 58/58 [=====] - 1s 11ms/step - loss: 0.2852 - accuracy:
 0.8811 - val_loss: 0.3543 - val_accuracy: 0.8540
 Epoch 57/200
 55/58 [=====>..] - ETA: 0s - loss: 0.2811 - accuracy:
 0.8827
 Epoch 57: val_loss did not improve from 0.26851
 58/58 [=====] - 1s 11ms/step - loss: 0.2802 - accuracy:

0.8827 - val_loss: 0.3317 - val_accuracy: 0.8628
Epoch 58/200
55/58 [=====>..] - ETA: 0s - loss: 0.2785 - accuracy:
0.8813
Epoch 58: val_loss did not improve from 0.26851
58/58 [=====] - 1s 10ms/step - loss: 0.2789 - accuracy:
0.8819 - val_loss: 0.3720 - val_accuracy: 0.8393
Epoch 59/200
55/58 [=====>..] - ETA: 0s - loss: 0.2759 - accuracy:
0.8817
Epoch 59: val_loss did not improve from 0.26851
58/58 [=====] - 1s 10ms/step - loss: 0.2761 - accuracy:
0.8816 - val_loss: 0.3778 - val_accuracy: 0.8382
Epoch 60/200
55/58 [=====>..] - ETA: 0s - loss: 0.2944 - accuracy:
0.8783
Epoch 60: val_loss did not improve from 0.26851
58/58 [=====] - 1s 10ms/step - loss: 0.2930 - accuracy:
0.8783 - val_loss: 0.3577 - val_accuracy: 0.8403
Epoch 61/200
55/58 [=====>..] - ETA: 0s - loss: 0.2787 - accuracy:
0.8818
Epoch 61: val_loss did not improve from 0.26851
58/58 [=====] - 1s 10ms/step - loss: 0.2776 - accuracy:
0.8833 - val_loss: 0.3294 - val_accuracy: 0.8737
Epoch 62/200
55/58 [=====>..] - ETA: 0s - loss: 0.2675 - accuracy:
0.8899
Epoch 62: val_loss did not improve from 0.26851
58/58 [=====] - 1s 10ms/step - loss: 0.2661 - accuracy:
0.8905 - val_loss: 0.3099 - val_accuracy: 0.8808
Epoch 63/200
54/58 [=====>...] - ETA: 0s - loss: 0.2577 - accuracy:
0.8953
Epoch 63: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.2599 - accuracy:
0.8951 - val_loss: 0.3018 - val_accuracy: 0.8835
Epoch 64/200
55/58 [=====>..] - ETA: 0s - loss: 0.2628 - accuracy:
0.8884
Epoch 64: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.2628 - accuracy:
0.8879 - val_loss: 0.3446 - val_accuracy: 0.8557
Epoch 65/200
55/58 [=====>..] - ETA: 0s - loss: 0.2621 - accuracy:
0.8930
Epoch 65: val_loss did not improve from 0.26851
58/58 [=====] - 1s 10ms/step - loss: 0.2612 - accuracy:


```

0.8941 - val_loss: 0.2884 - val_accuracy: 0.8830
Epoch 66/200
55/58 [=====>..] - ETA: 0s - loss: 0.2628 - accuracy:
0.8936
Epoch 66: val_loss did not improve from 0.26851
58/58 [=====] - 1s 11ms/step - loss: 0.2625 - accuracy:
0.8927 - val_loss: 0.3100 - val_accuracy: 0.8693
Epoch 66: early stopping

```

```
[176]: CNN_model1.evaluate(X_test1,Y_test1,verbose = 1)
```

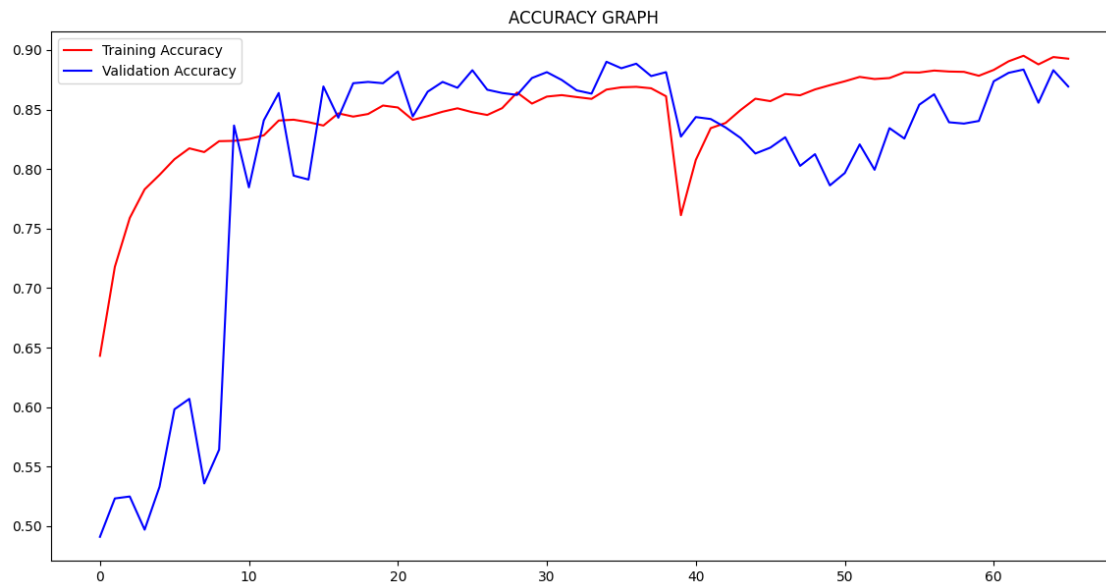
```

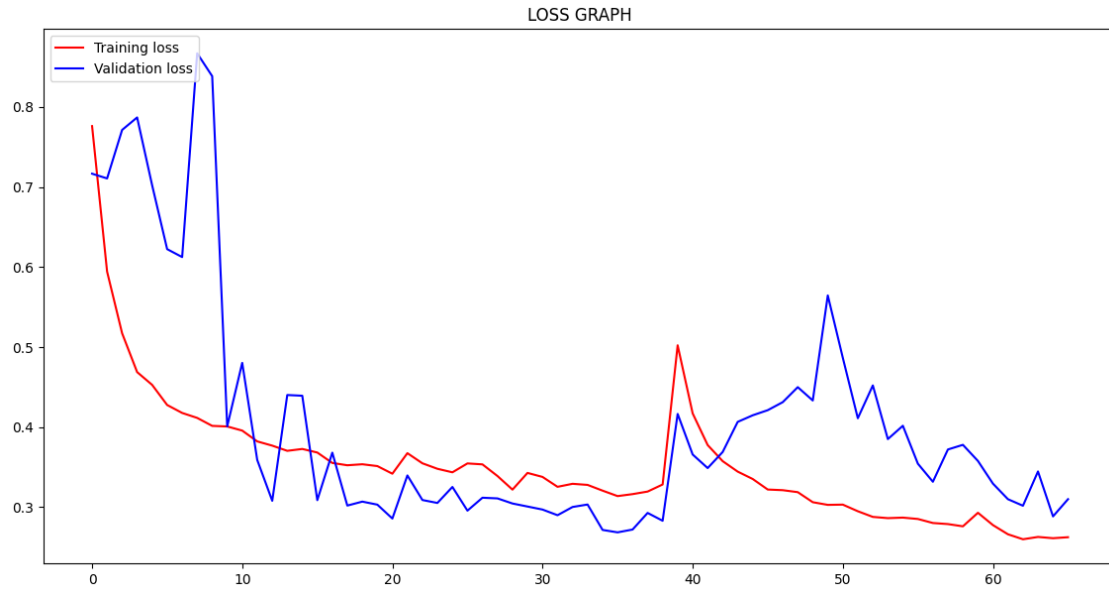
72/72 [=====] - 0s 3ms/step - loss: 0.2967 - accuracy:
0.8705

```

```
[176]: [0.2967459261417389, 0.8705161809921265]
```

```
[180]: eval_graph(CNN_results_1)
```



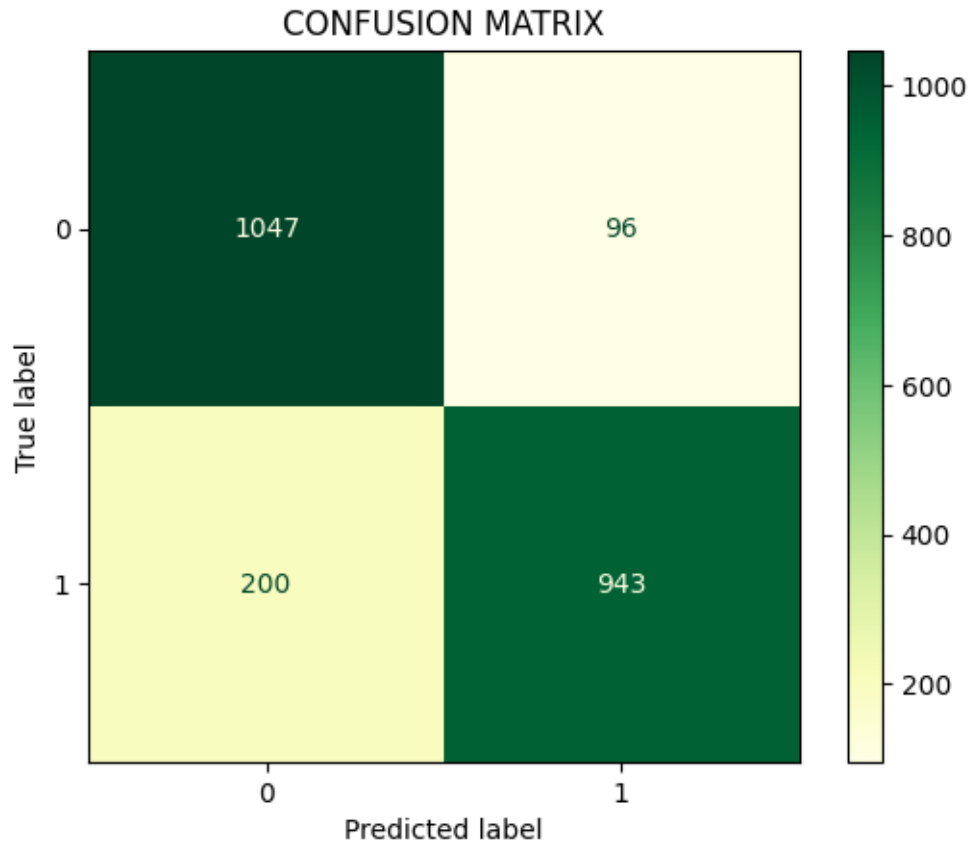


```
[178]: Y_test1
```

```
[178]: 6172    1
      9810    1
      8537    1
      605    1
      6549    0
      ..
      4104    0
      6374    0
      6232    0
      3950    0
      8863    0
      Name: labels, Length: 2286, dtype: int64
```

```
[179]: conf_matrix(X_test1,Y_test1,CNN_model1)
```

```
72/72 [=====] - 0s 2ms/step
```



0.7 CNN MODEL ON SECOND DATASET

```
[181]: CNN_model2.
        ↪ compile(optimizer='adam', loss='binary_crossentropy', metrics=['accuracy'])

callbacks = [tf.keras.callbacks.
        ↪ ModelCheckpoint('CNN_MODEL_ON_NON_FEATURE_EXTRACTED.
        ↪ h5', verbose=1, save_best_only=True),
              tf.keras.callbacks.EarlyStopping(monitor='val_loss', min_delta=0.
        ↪ 001, patience=30, verbose=1)]
CNN_results_2 = CNN_model2.fit(X_train2, Y_train2, validation_split=0.
        ↪ 2, batch_size=128, epochs=200, callbacks=callbacks)
```

Epoch 1/200

58/58 [=====] - ETA: 0s - loss: 0.9759 - accuracy: 0.7204

Epoch 1: val_loss improved from inf to 0.69141, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5

58/58 [=====] - 7s 29ms/step - loss: 0.9759 - accuracy: 0.7204 - val_loss: 0.6914 - val_accuracy: 0.5036

```

Epoch 2/200
 1/58 [...] - ETA: 0s - loss: 0.4869 - accuracy:
0.7812

/opt/conda/lib/python3.10/site-packages/keras/src/engine/training.py:3000:
UserWarning: You are saving your model as an HDF5 file via `model.save()`. This
file format is considered legacy. We recommend using instead the native Keras
format, e.g. `model.save('my_model.keras')`.
  saving_api.save_model(

57/58 [=====>.] - ETA: 0s - loss: 0.4522 - accuracy:
0.7962
Epoch 2: val_loss improved from 0.69141 to 0.68865, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 19ms/step - loss: 0.4528 - accuracy:
0.7959 - val_loss: 0.6886 - val_accuracy: 0.5036
Epoch 3/200
57/58 [=====>.] - ETA: 0s - loss: 0.4009 - accuracy:
0.8198
Epoch 3: val_loss improved from 0.68865 to 0.67576, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 18ms/step - loss: 0.4008 - accuracy:
0.8197 - val_loss: 0.6758 - val_accuracy: 0.5041
Epoch 4/200
57/58 [=====>.] - ETA: 0s - loss: 0.3610 - accuracy:
0.8459
Epoch 4: val_loss improved from 0.67576 to 0.65970, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 18ms/step - loss: 0.3619 - accuracy:
0.8454 - val_loss: 0.6597 - val_accuracy: 0.6670
Epoch 5/200
57/58 [=====>.] - ETA: 0s - loss: 0.3323 - accuracy:
0.8590
Epoch 5: val_loss improved from 0.65970 to 0.61410, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 18ms/step - loss: 0.3320 - accuracy:
0.8592 - val_loss: 0.6141 - val_accuracy: 0.7195
Epoch 6/200
57/58 [=====>.] - ETA: 0s - loss: 0.3130 - accuracy:
0.8701
Epoch 6: val_loss improved from 0.61410 to 0.56403, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 19ms/step - loss: 0.3124 - accuracy:
0.8704 - val_loss: 0.5640 - val_accuracy: 0.8075
Epoch 7/200
57/58 [=====>.] - ETA: 0s - loss: 0.2902 - accuracy:
0.8806
Epoch 7: val_loss improved from 0.56403 to 0.47031, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5

```

58/58 [=====] - 1s 18ms/step - loss: 0.2899 - accuracy: 0.8807 - val_loss: 0.4703 - val_accuracy: 0.8338
Epoch 8/200
57/58 [=====>.] - ETA: 0s - loss: 0.2692 - accuracy: 0.8901
Epoch 8: val_loss improved from 0.47031 to 0.39941, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 18ms/step - loss: 0.2702 - accuracy: 0.8897 - val_loss: 0.3994 - val_accuracy: 0.8688
Epoch 9/200
57/58 [=====>.] - ETA: 0s - loss: 0.2496 - accuracy: 0.8946
Epoch 9: val_loss improved from 0.39941 to 0.33926, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 18ms/step - loss: 0.2494 - accuracy: 0.8946 - val_loss: 0.3393 - val_accuracy: 0.8819
Epoch 10/200
57/58 [=====>.] - ETA: 0s - loss: 0.2412 - accuracy: 0.9016
Epoch 10: val_loss improved from 0.33926 to 0.28775, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 19ms/step - loss: 0.2409 - accuracy: 0.9017 - val_loss: 0.2878 - val_accuracy: 0.8841
Epoch 11/200
57/58 [=====>.] - ETA: 0s - loss: 0.2240 - accuracy: 0.9087
Epoch 11: val_loss improved from 0.28775 to 0.27771, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 2s 29ms/step - loss: 0.2241 - accuracy: 0.9087 - val_loss: 0.2777 - val_accuracy: 0.8901
Epoch 12/200
57/58 [=====>.] - ETA: 0s - loss: 0.2180 - accuracy: 0.9094
Epoch 12: val_loss improved from 0.27771 to 0.26640, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 19ms/step - loss: 0.2178 - accuracy: 0.9096 - val_loss: 0.2664 - val_accuracy: 0.8890
Epoch 13/200
57/58 [=====>.] - ETA: 0s - loss: 0.2103 - accuracy: 0.9158
Epoch 13: val_loss improved from 0.26640 to 0.25261, saving model to CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 18ms/step - loss: 0.2105 - accuracy: 0.9157 - val_loss: 0.2526 - val_accuracy: 0.8846
Epoch 14/200
57/58 [=====>.] - ETA: 0s - loss: 0.1997 - accuracy: 0.9169
Epoch 14: val_loss improved from 0.25261 to 0.24405, saving model to

```

CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 18ms/step - loss: 0.1995 - accuracy:
0.9170 - val_loss: 0.2441 - val_accuracy: 0.8978
Epoch 15/200
57/58 [=====>.] - ETA: 0s - loss: 0.1871 - accuracy:
0.9230
Epoch 15: val_loss improved from 0.24405 to 0.24135, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 18ms/step - loss: 0.1870 - accuracy:
0.9229 - val_loss: 0.2414 - val_accuracy: 0.9054
Epoch 16/200
57/58 [=====>.] - ETA: 0s - loss: 0.1815 - accuracy:
0.9254
Epoch 16: val_loss did not improve from 0.24135
58/58 [=====] - 1s 16ms/step - loss: 0.1813 - accuracy:
0.9254 - val_loss: 0.2661 - val_accuracy: 0.8863
Epoch 17/200
57/58 [=====>.] - ETA: 0s - loss: 0.1830 - accuracy:
0.9241
Epoch 17: val_loss did not improve from 0.24135
58/58 [=====] - 1s 15ms/step - loss: 0.1830 - accuracy:
0.9241 - val_loss: 0.2514 - val_accuracy: 0.8868
Epoch 18/200
57/58 [=====>.] - ETA: 0s - loss: 0.1782 - accuracy:
0.9279
Epoch 18: val_loss improved from 0.24135 to 0.23493, saving model to
CNN_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 18ms/step - loss: 0.1782 - accuracy:
0.9280 - val_loss: 0.2349 - val_accuracy: 0.9043
Epoch 19/200
57/58 [=====>.] - ETA: 0s - loss: 0.1824 - accuracy:
0.9264
Epoch 19: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1821 - accuracy:
0.9265 - val_loss: 0.2424 - val_accuracy: 0.9065
Epoch 20/200
57/58 [=====>.] - ETA: 0s - loss: 0.1678 - accuracy:
0.9297
Epoch 20: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1676 - accuracy:
0.9297 - val_loss: 0.2438 - val_accuracy: 0.9054
Epoch 21/200
57/58 [=====>.] - ETA: 0s - loss: 0.1596 - accuracy:
0.9361
Epoch 21: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1593 - accuracy:
0.9362 - val_loss: 0.2426 - val_accuracy: 0.9010
Epoch 22/200

```

57/58 [=====>.] - ETA: 0s - loss: 0.1555 - accuracy:
0.9365
Epoch 22: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1555 - accuracy:
0.9366 - val_loss: 0.2390 - val_accuracy: 0.9087
Epoch 23/200
55/58 [=====>..] - ETA: 0s - loss: 0.1575 - accuracy:
0.9337
Epoch 23: val_loss did not improve from 0.23493
58/58 [=====] - 1s 17ms/step - loss: 0.1580 - accuracy:
0.9341 - val_loss: 0.2618 - val_accuracy: 0.9021
Epoch 24/200
57/58 [=====>.] - ETA: 0s - loss: 0.1522 - accuracy:
0.9371
Epoch 24: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1522 - accuracy:
0.9371 - val_loss: 0.2459 - val_accuracy: 0.9092
Epoch 25/200
57/58 [=====>.] - ETA: 0s - loss: 0.1429 - accuracy:
0.9417
Epoch 25: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1428 - accuracy:
0.9419 - val_loss: 0.2534 - val_accuracy: 0.9016
Epoch 26/200
57/58 [=====>.] - ETA: 0s - loss: 0.1476 - accuracy:
0.9417
Epoch 26: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1477 - accuracy:
0.9418 - val_loss: 0.2586 - val_accuracy: 0.8972
Epoch 27/200
57/58 [=====>.] - ETA: 0s - loss: 0.1517 - accuracy:
0.9385
Epoch 27: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1517 - accuracy:
0.9385 - val_loss: 0.2417 - val_accuracy: 0.9098
Epoch 28/200
57/58 [=====>.] - ETA: 0s - loss: 0.1452 - accuracy:
0.9424
Epoch 28: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1451 - accuracy:
0.9424 - val_loss: 0.2615 - val_accuracy: 0.9076
Epoch 29/200
57/58 [=====>.] - ETA: 0s - loss: 0.1419 - accuracy:
0.9420
Epoch 29: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1417 - accuracy:
0.9422 - val_loss: 0.2555 - val_accuracy: 0.9087
Epoch 30/200

57/58 [=====>.] - ETA: 0s - loss: 0.1356 - accuracy: 0.9441
Epoch 30: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1355 - accuracy: 0.9441 - val_loss: 0.2406 - val_accuracy: 0.9114
Epoch 31/200
57/58 [=====>.] - ETA: 0s - loss: 0.1390 - accuracy: 0.9431
Epoch 31: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1388 - accuracy: 0.9433 - val_loss: 0.2604 - val_accuracy: 0.9049
Epoch 32/200
57/58 [=====>.] - ETA: 0s - loss: 0.1377 - accuracy: 0.9449
Epoch 32: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1381 - accuracy: 0.9448 - val_loss: 0.2714 - val_accuracy: 0.9131
Epoch 33/200
57/58 [=====>.] - ETA: 0s - loss: 0.1352 - accuracy: 0.9437
Epoch 33: val_loss did not improve from 0.23493
58/58 [=====] - 1s 17ms/step - loss: 0.1351 - accuracy: 0.9437 - val_loss: 0.2726 - val_accuracy: 0.9027
Epoch 34/200
57/58 [=====>.] - ETA: 0s - loss: 0.1405 - accuracy: 0.9448
Epoch 34: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1403 - accuracy: 0.9448 - val_loss: 0.2683 - val_accuracy: 0.9027
Epoch 35/200
57/58 [=====>.] - ETA: 0s - loss: 0.1348 - accuracy: 0.9454
Epoch 35: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1348 - accuracy: 0.9455 - val_loss: 0.2875 - val_accuracy: 0.9092
Epoch 36/200
57/58 [=====>.] - ETA: 0s - loss: 0.1334 - accuracy: 0.9467
Epoch 36: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1336 - accuracy: 0.9465 - val_loss: 0.2606 - val_accuracy: 0.9103
Epoch 37/200
57/58 [=====>.] - ETA: 0s - loss: 0.1352 - accuracy: 0.9450
Epoch 37: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1350 - accuracy: 0.9452 - val_loss: 0.2551 - val_accuracy: 0.9005
Epoch 38/200

57/58 [=====>.] - ETA: 0s - loss: 0.1330 - accuracy:
0.9434
Epoch 38: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1329 - accuracy:
0.9434 - val_loss: 0.2836 - val_accuracy: 0.9027
Epoch 39/200
57/58 [=====>.] - ETA: 0s - loss: 0.1295 - accuracy:
0.9470
Epoch 39: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1295 - accuracy:
0.9470 - val_loss: 0.2591 - val_accuracy: 0.9027
Epoch 40/200
57/58 [=====>.] - ETA: 0s - loss: 0.1311 - accuracy:
0.9476
Epoch 40: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1310 - accuracy:
0.9476 - val_loss: 0.2861 - val_accuracy: 0.9065
Epoch 41/200
57/58 [=====>.] - ETA: 0s - loss: 0.1287 - accuracy:
0.9472
Epoch 41: val_loss did not improve from 0.23493
58/58 [=====] - 1s 15ms/step - loss: 0.1289 - accuracy:
0.9471 - val_loss: 0.2841 - val_accuracy: 0.9021
Epoch 42/200
57/58 [=====>.] - ETA: 0s - loss: 0.1298 - accuracy:
0.9485
Epoch 42: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1297 - accuracy:
0.9486 - val_loss: 0.2763 - val_accuracy: 0.9010
Epoch 43/200
57/58 [=====>.] - ETA: 0s - loss: 0.1308 - accuracy:
0.9468
Epoch 43: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1306 - accuracy:
0.9468 - val_loss: 0.3003 - val_accuracy: 0.9043
Epoch 44/200
57/58 [=====>.] - ETA: 0s - loss: 0.1329 - accuracy:
0.9453
Epoch 44: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1331 - accuracy:
0.9453 - val_loss: 0.2559 - val_accuracy: 0.9076
Epoch 45/200
57/58 [=====>.] - ETA: 0s - loss: 0.1285 - accuracy:
0.9486
Epoch 45: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1293 - accuracy:
0.9485 - val_loss: 0.2910 - val_accuracy: 0.9043
Epoch 46/200

```

57/58 [=====>.] - ETA: 0s - loss: 0.1249 - accuracy:
0.9500
Epoch 46: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1247 - accuracy:
0.9501 - val_loss: 0.2798 - val_accuracy: 0.9038
Epoch 47/200
57/58 [=====>.] - ETA: 0s - loss: 0.1278 - accuracy:
0.9472
Epoch 47: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1279 - accuracy:
0.9471 - val_loss: 0.2490 - val_accuracy: 0.9054
Epoch 48/200
57/58 [=====>.] - ETA: 0s - loss: 0.1269 - accuracy:
0.9487
Epoch 48: val_loss did not improve from 0.23493
58/58 [=====] - 1s 16ms/step - loss: 0.1266 - accuracy:
0.9489 - val_loss: 0.2936 - val_accuracy: 0.9054
Epoch 48: early stopping

```

```
[182]: CNN_model2.evaluate(X_test2,Y_test2,verbose = 1)
```

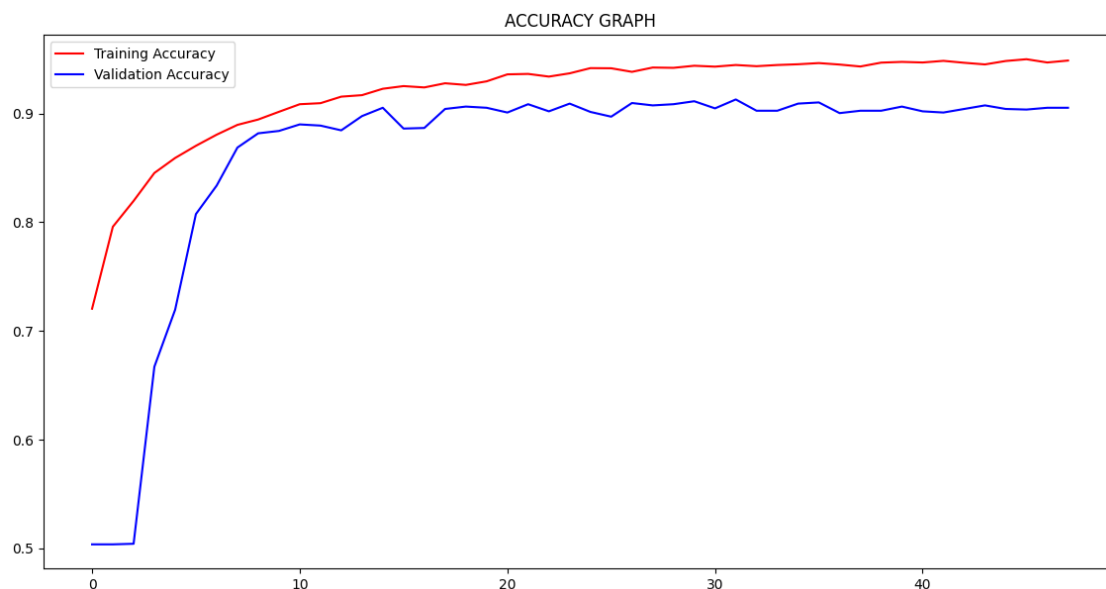
```

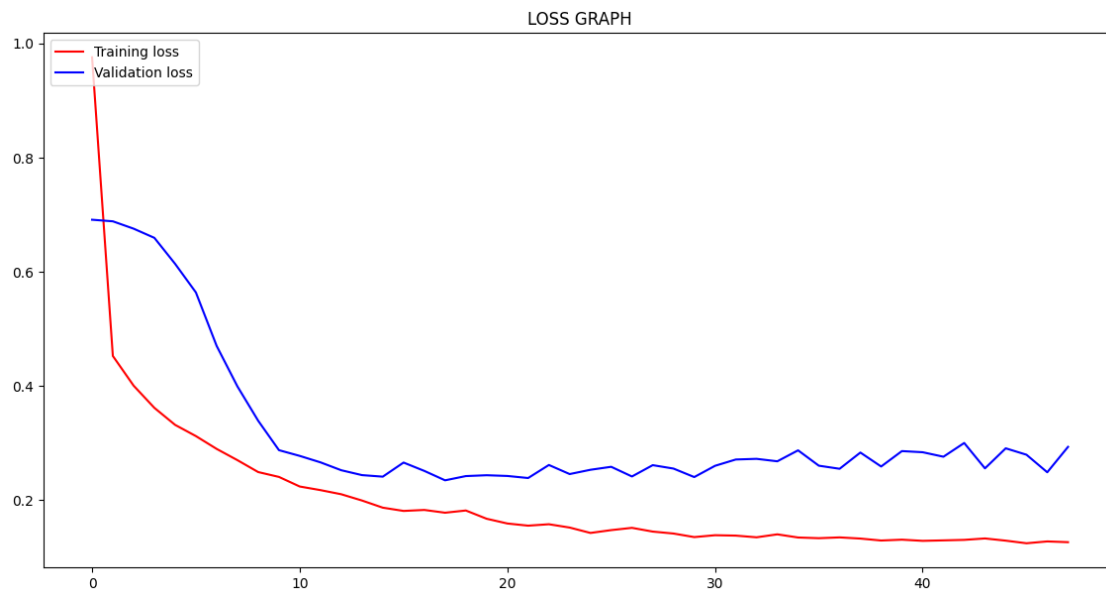
72/72 [=====] - 0s 4ms/step - loss: 0.2971 - accuracy:
0.9143

```

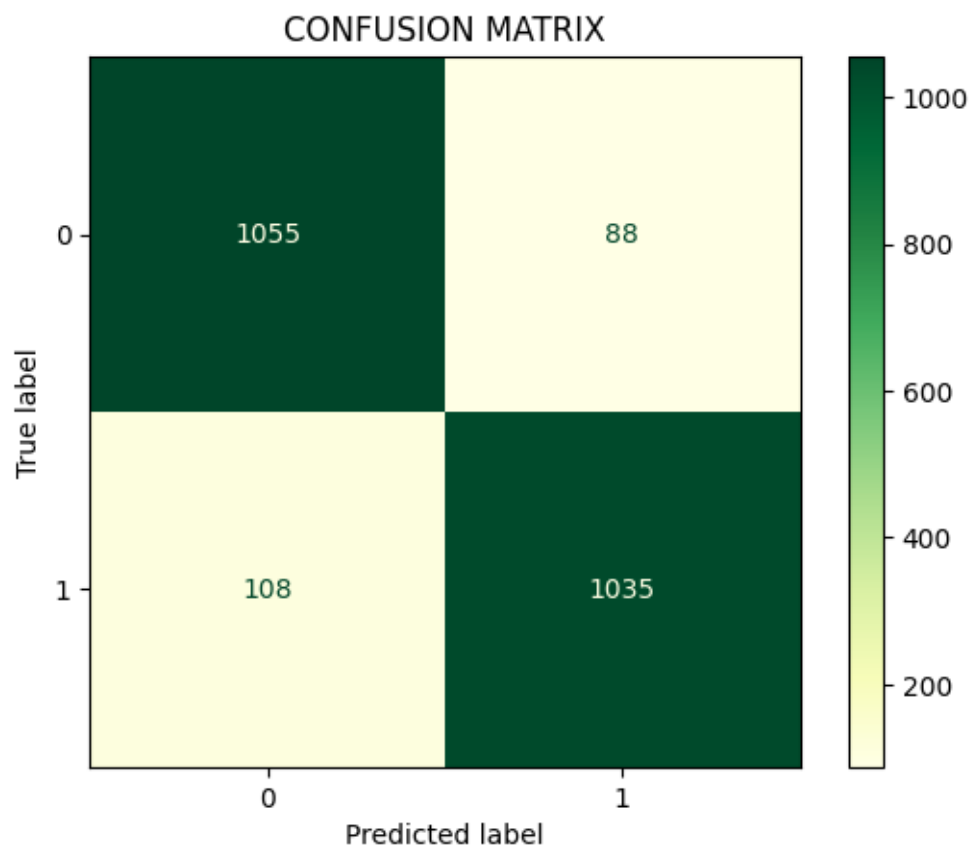
```
[182]: [0.29710978269577026, 0.914260745048523]
```

```
[183]: eval_graph(CNN_results_2)
conf_matrix(X_test2,Y_test2,CNN_model2)
```





72/72 [=====] - 0s 2ms/step



0.8 CNN LSTM MODEL

```
[199]: def CNN_LSTM(input_size):
    model = keras.Sequential()
    model.add(layers.Input(input_size))
    model.add(layers.Conv1D(filters = 16, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
    model.add(layers.BatchNormalization())
    model.add(layers.MaxPooling1D(pool_size = 2, padding = 'same'))
    model.add(layers.Conv1D(filters = 32, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
    model.add(layers.BatchNormalization())
    model.add(layers.MaxPooling1D(pool_size = 2, padding = 'same'))
    model.add(layers.Conv1D(filters = 64, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
    model.add(layers.BatchNormalization())
    model.add(layers.MaxPooling1D(pool_size = 2, padding = 'same'))
    model.add(layers.Conv1D(filters = 128, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
    model.add(layers.BatchNormalization())
    model.add(layers.MaxPooling1D(pool_size = 2, padding = 'same'))
    model.add(layers.Conv1D(filters = 256, kernel_size = 3, activation = 'relu', padding = 'same'))
    model.add(layers.Dropout(0.2))
    model.add(layers.BatchNormalization())
    model.add(layers.LSTM(128, return_sequences=True))
    model.add(layers.Dropout(0.3))
    model.add(layers.Flatten())
    model.add(layers.Dense(128, activation = 'relu'))
    model.add(layers.Dropout(0.3))
    model.add(layers.Dense(128, activation = 'relu'))
    model.add(layers.Dropout(0.3))
    model.add(layers.Dense(1, activation = 'sigmoid'))

    return model

CNN_LSTM_model1 = CNN_LSTM(input_size1)
CNN_LSTM_model1.summary()
CNN_LSTM_model2 = CNN_LSTM(input_size2)
CNN_LSTM_model2.summary()
```

Model: "sequential_57"

Layer (type)	Output Shape	Param #
conv1d_281 (Conv1D)	(None, 87, 16)	64
dropout_417 (Dropout)	(None, 87, 16)	0
batch_normalization_281 (BatchNormalization)	(None, 87, 16)	64
max_pooling1d_272 (MaxPooling1D)	(None, 44, 16)	0
conv1d_282 (Conv1D)	(None, 44, 32)	1568
dropout_418 (Dropout)	(None, 44, 32)	0
batch_normalization_282 (BatchNormalization)	(None, 44, 32)	128
max_pooling1d_273 (MaxPooling1D)	(None, 22, 32)	0
conv1d_283 (Conv1D)	(None, 22, 64)	6208
dropout_419 (Dropout)	(None, 22, 64)	0
batch_normalization_283 (BatchNormalization)	(None, 22, 64)	256
max_pooling1d_274 (MaxPooling1D)	(None, 11, 64)	0
conv1d_284 (Conv1D)	(None, 11, 128)	24704
dropout_420 (Dropout)	(None, 11, 128)	0
batch_normalization_284 (BatchNormalization)	(None, 11, 128)	512
max_pooling1d_275 (MaxPooling1D)	(None, 6, 128)	0
conv1d_285 (Conv1D)	(None, 6, 256)	98560
dropout_421 (Dropout)	(None, 6, 256)	0

batch_normalization_285 (Batch Normalization)	(None, 6, 256)	1024
lstm_17 (LSTM)	(None, 6, 128)	197120
dropout_422 (Dropout)	(None, 6, 128)	0
flatten_49 (Flatten)	(None, 768)	0
dense_132 (Dense)	(None, 128)	98432
dropout_423 (Dropout)	(None, 128)	0
dense_133 (Dense)	(None, 128)	16512
dropout_424 (Dropout)	(None, 128)	0
dense_134 (Dense)	(None, 1)	129

```

=====
Total params: 445281 (1.70 MB)
Trainable params: 444289 (1.69 MB)
Non-trainable params: 992 (3.88 KB)

```

```

-----
Model: "sequential_58"

```

Layer (type)	Output Shape	Param #
conv1d_286 (Conv1D)	(None, 1000, 16)	64
dropout_425 (Dropout)	(None, 1000, 16)	0
batch_normalization_286 (Batch Normalization)	(None, 1000, 16)	64
max_pooling1d_276 (MaxPooling1D)	(None, 500, 16)	0
conv1d_287 (Conv1D)	(None, 500, 32)	1568
dropout_426 (Dropout)	(None, 500, 32)	0
batch_normalization_287 (Batch Normalization)	(None, 500, 32)	128
max_pooling1d_277 (MaxPooling1D)	(None, 250, 32)	0

conv1d_288 (Conv1D)	(None, 250, 64)	6208
dropout_427 (Dropout)	(None, 250, 64)	0
batch_normalization_288 (BatchNormalization)	(None, 250, 64)	256
max_pooling1d_278 (MaxPooling1D)	(None, 125, 64)	0
conv1d_289 (Conv1D)	(None, 125, 128)	24704
dropout_428 (Dropout)	(None, 125, 128)	0
batch_normalization_289 (BatchNormalization)	(None, 125, 128)	512
max_pooling1d_279 (MaxPooling1D)	(None, 63, 128)	0
conv1d_290 (Conv1D)	(None, 63, 256)	98560
dropout_429 (Dropout)	(None, 63, 256)	0
batch_normalization_290 (BatchNormalization)	(None, 63, 256)	1024
lstm_18 (LSTM)	(None, 63, 128)	197120
dropout_430 (Dropout)	(None, 63, 128)	0
flatten_50 (Flatten)	(None, 8064)	0
dense_135 (Dense)	(None, 128)	1032320
dropout_431 (Dropout)	(None, 128)	0
dense_136 (Dense)	(None, 128)	16512
dropout_432 (Dropout)	(None, 128)	0
dense_137 (Dense)	(None, 1)	129

```

=====
Total params: 1379169 (5.26 MB)
Trainable params: 1378177 (5.26 MB)
Non-trainable params: 992 (3.88 KB)
-----

```

0.9 CNN_LSTM MODEL ON FIRST DATASET

```
[200]: CNN_LSTM_model1.  
        ↪ compile(optimizer='adam', loss='binary_crossentropy', metrics=['accuracy'])  
  
callbacks = [tf.keras.callbacks.  
        ↪ ModelCheckpoint('CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.  
        ↪ h5', verbose=1, save_best_only=True),  
              tf.keras.callbacks.EarlyStopping(monitor='val_loss', min_delta=0.  
        ↪ 001, patience=30, verbose=1)]  
CNN_LSTM_results_1 = CNN_LSTM_model1.fit(X_train1, Y_train1, validation_split=0.  
        ↪ 2, batch_size=128, epochs=200, callbacks=callbacks)
```

Epoch 1/200

56/58 [=====>...] - ETA: 0s - loss: 0.6004 - accuracy:
0.6696

Epoch 1: val_loss improved from inf to 0.71803, saving model to
CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5

58/58 [=====] - 9s 27ms/step - loss: 0.5995 - accuracy:
0.6710 - val_loss: 0.7180 - val_accuracy: 0.5227

Epoch 2/200

6/58 [==>...] - ETA: 0s - loss: 0.5090 - accuracy:
0.7643

/opt/conda/lib/python3.10/site-packages/keras/src/engine/training.py:3000:
UserWarning: You are saving your model as an HDF5 file via `model.save()`. This
file format is considered legacy. We recommend using instead the native Keras
format, e.g. `model.save('my_model.keras')`.
saving_api.save_model(

56/58 [=====>...] - ETA: 0s - loss: 0.4733 - accuracy:
0.7847

Epoch 2: val_loss did not improve from 0.71803

58/58 [=====] - 1s 12ms/step - loss: 0.4731 - accuracy:
0.7844 - val_loss: 1.0082 - val_accuracy: 0.5342

Epoch 3/200

56/58 [=====>...] - ETA: 0s - loss: 0.4339 - accuracy:
0.8013

Epoch 3: val_loss did not improve from 0.71803

58/58 [=====] - 1s 12ms/step - loss: 0.4338 - accuracy:
0.8015 - val_loss: 0.8418 - val_accuracy: 0.5347

Epoch 4/200

54/58 [=====>...] - ETA: 0s - loss: 0.4106 - accuracy:
0.8229

Epoch 4: val_loss did not improve from 0.71803

58/58 [=====] - 1s 13ms/step - loss: 0.4089 - accuracy:
0.8230 - val_loss: 1.5556 - val_accuracy: 0.5320

Epoch 5/200

58/58 [=====] - ETA: 0s - loss: 0.3915 - accuracy:


```

0.8308
Epoch 5: val_loss did not improve from 0.71803
58/58 [=====] - 1s 16ms/step - loss: 0.3915 - accuracy:
0.8308 - val_loss: 1.7609 - val_accuracy: 0.5325
Epoch 6/200
55/58 [=====>..] - ETA: 0s - loss: 0.3897 - accuracy:
0.8257
Epoch 6: val_loss did not improve from 0.71803
58/58 [=====] - 1s 14ms/step - loss: 0.3883 - accuracy:
0.8268 - val_loss: 1.3231 - val_accuracy: 0.5358
Epoch 7/200
56/58 [=====>..] - ETA: 0s - loss: 0.3784 - accuracy:
0.8338
Epoch 7: val_loss did not improve from 0.71803
58/58 [=====] - 1s 12ms/step - loss: 0.3797 - accuracy:
0.8329 - val_loss: 1.7572 - val_accuracy: 0.5150
Epoch 8/200
56/58 [=====>..] - ETA: 0s - loss: 0.3712 - accuracy:
0.8398
Epoch 8: val_loss did not improve from 0.71803
58/58 [=====] - 1s 12ms/step - loss: 0.3712 - accuracy:
0.8401 - val_loss: 1.2466 - val_accuracy: 0.5407
Epoch 9/200
56/58 [=====>..] - ETA: 0s - loss: 0.3610 - accuracy:
0.8458
Epoch 9: val_loss did not improve from 0.71803
58/58 [=====] - 1s 12ms/step - loss: 0.3612 - accuracy:
0.8459 - val_loss: 0.9666 - val_accuracy: 0.5424
Epoch 10/200
56/58 [=====>..] - ETA: 0s - loss: 0.3671 - accuracy:
0.8391
Epoch 10: val_loss did not improve from 0.71803
58/58 [=====] - 1s 12ms/step - loss: 0.3666 - accuracy:
0.8394 - val_loss: 0.9307 - val_accuracy: 0.5938
Epoch 11/200
56/58 [=====>..] - ETA: 0s - loss: 0.3502 - accuracy:
0.8537
Epoch 11: val_loss did not improve from 0.71803
58/58 [=====] - 1s 13ms/step - loss: 0.3487 - accuracy:
0.8545 - val_loss: 0.9783 - val_accuracy: 0.5927
Epoch 12/200
56/58 [=====>..] - ETA: 0s - loss: 0.3506 - accuracy:
0.8510
Epoch 12: val_loss improved from 0.71803 to 0.48694, saving model to
CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 14ms/step - loss: 0.3500 - accuracy:
0.8509 - val_loss: 0.4869 - val_accuracy: 0.7501
Epoch 13/200

```

56/58 [=====>..] - ETA: 0s - loss: 0.3504 - accuracy: 0.8478
Epoch 13: val_loss improved from 0.48694 to 0.30589, saving model to CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 14ms/step - loss: 0.3505 - accuracy: 0.8483 - val_loss: 0.3059 - val_accuracy: 0.8742
Epoch 14/200
56/58 [=====>..] - ETA: 0s - loss: 0.3399 - accuracy: 0.8562
Epoch 14: val_loss did not improve from 0.30589
58/58 [=====] - 1s 12ms/step - loss: 0.3399 - accuracy: 0.8559 - val_loss: 0.4677 - val_accuracy: 0.7490
Epoch 15/200
56/58 [=====>..] - ETA: 0s - loss: 0.3434 - accuracy: 0.8564
Epoch 15: val_loss did not improve from 0.30589
58/58 [=====] - 1s 13ms/step - loss: 0.3430 - accuracy: 0.8565 - val_loss: 0.5079 - val_accuracy: 0.7458
Epoch 16/200
56/58 [=====>..] - ETA: 0s - loss: 0.3400 - accuracy: 0.8520
Epoch 16: val_loss improved from 0.30589 to 0.29851, saving model to CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 14ms/step - loss: 0.3406 - accuracy: 0.8513 - val_loss: 0.2985 - val_accuracy: 0.8808
Epoch 17/200
56/58 [=====>..] - ETA: 0s - loss: 0.3371 - accuracy: 0.8545
Epoch 17: val_loss did not improve from 0.29851
58/58 [=====] - 1s 12ms/step - loss: 0.3367 - accuracy: 0.8548 - val_loss: 0.5198 - val_accuracy: 0.7479
Epoch 18/200
56/58 [=====>..] - ETA: 0s - loss: 0.3358 - accuracy: 0.8605
Epoch 18: val_loss improved from 0.29851 to 0.29183, saving model to CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 14ms/step - loss: 0.3359 - accuracy: 0.8603 - val_loss: 0.2918 - val_accuracy: 0.8786
Epoch 19/200
58/58 [=====] - ETA: 0s - loss: 0.3301 - accuracy: 0.8611
Epoch 19: val_loss did not improve from 0.29183
58/58 [=====] - 1s 13ms/step - loss: 0.3301 - accuracy: 0.8611 - val_loss: 0.6015 - val_accuracy: 0.6933
Epoch 20/200
56/58 [=====>..] - ETA: 0s - loss: 0.3281 - accuracy: 0.8613
Epoch 20: val_loss did not improve from 0.29183

58/58 [=====] - 1s 12ms/step - loss: 0.3293 - accuracy: 0.8615 - val_loss: 0.3482 - val_accuracy: 0.8518
Epoch 21/200
56/58 [=====>..] - ETA: 0s - loss: 0.3293 - accuracy: 0.8619
Epoch 21: val_loss did not improve from 0.29183
58/58 [=====] - 1s 12ms/step - loss: 0.3309 - accuracy: 0.8608 - val_loss: 0.4136 - val_accuracy: 0.8119
Epoch 22/200
56/58 [=====>..] - ETA: 0s - loss: 0.3203 - accuracy: 0.8617
Epoch 22: val_loss did not improve from 0.29183
58/58 [=====] - 1s 12ms/step - loss: 0.3210 - accuracy: 0.8611 - val_loss: 0.5375 - val_accuracy: 0.7119
Epoch 23/200
56/58 [=====>..] - ETA: 0s - loss: 0.3231 - accuracy: 0.8661
Epoch 23: val_loss did not improve from 0.29183
58/58 [=====] - 1s 12ms/step - loss: 0.3248 - accuracy: 0.8653 - val_loss: 0.3433 - val_accuracy: 0.8568
Epoch 24/200
56/58 [=====>..] - ETA: 0s - loss: 0.3260 - accuracy: 0.8666
Epoch 24: val_loss did not improve from 0.29183
58/58 [=====] - 1s 12ms/step - loss: 0.3257 - accuracy: 0.8664 - val_loss: 0.4759 - val_accuracy: 0.7660
Epoch 25/200
56/58 [=====>..] - ETA: 0s - loss: 0.3210 - accuracy: 0.8666
Epoch 25: val_loss did not improve from 0.29183
58/58 [=====] - 1s 12ms/step - loss: 0.3214 - accuracy: 0.8662 - val_loss: 0.5778 - val_accuracy: 0.7053
Epoch 26/200
56/58 [=====>..] - ETA: 0s - loss: 0.3194 - accuracy: 0.8657
Epoch 26: val_loss did not improve from 0.29183
58/58 [=====] - 1s 12ms/step - loss: 0.3189 - accuracy: 0.8658 - val_loss: 0.3237 - val_accuracy: 0.8781
Epoch 27/200
56/58 [=====>..] - ETA: 0s - loss: 0.3210 - accuracy: 0.8669
Epoch 27: val_loss did not improve from 0.29183
58/58 [=====] - 1s 12ms/step - loss: 0.3204 - accuracy: 0.8681 - val_loss: 0.5131 - val_accuracy: 0.7217
Epoch 28/200
56/58 [=====>..] - ETA: 0s - loss: 0.3190 - accuracy: 0.8651
Epoch 28: val_loss did not improve from 0.29183

58/58 [=====] - 1s 12ms/step - loss: 0.3179 - accuracy: 0.8660 - val_loss: 0.6086 - val_accuracy: 0.7135
Epoch 29/200
56/58 [=====>..] - ETA: 0s - loss: 0.3045 - accuracy: 0.8767
Epoch 29: val_loss did not improve from 0.29183
58/58 [=====] - 1s 12ms/step - loss: 0.3050 - accuracy: 0.8764 - val_loss: 0.5055 - val_accuracy: 0.7518
Epoch 30/200
56/58 [=====>..] - ETA: 0s - loss: 0.3052 - accuracy: 0.8756
Epoch 30: val_loss improved from 0.29183 to 0.25750, saving model to CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 14ms/step - loss: 0.3060 - accuracy: 0.8749 - val_loss: 0.2575 - val_accuracy: 0.8907
Epoch 31/200
56/58 [=====>..] - ETA: 0s - loss: 0.3024 - accuracy: 0.8782
Epoch 31: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.3020 - accuracy: 0.8781 - val_loss: 0.5251 - val_accuracy: 0.7523
Epoch 32/200
57/58 [=====>.] - ETA: 0s - loss: 0.3070 - accuracy: 0.8775
Epoch 32: val_loss did not improve from 0.25750
58/58 [=====] - 1s 13ms/step - loss: 0.3068 - accuracy: 0.8776 - val_loss: 0.2855 - val_accuracy: 0.8830
Epoch 33/200
56/58 [=====>..] - ETA: 0s - loss: 0.3101 - accuracy: 0.8719
Epoch 33: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.3103 - accuracy: 0.8716 - val_loss: 0.2942 - val_accuracy: 0.8770
Epoch 34/200
56/58 [=====>..] - ETA: 0s - loss: 0.3045 - accuracy: 0.8733
Epoch 34: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.3043 - accuracy: 0.8734 - val_loss: 0.3422 - val_accuracy: 0.8557
Epoch 35/200
56/58 [=====>..] - ETA: 0s - loss: 0.3084 - accuracy: 0.8737
Epoch 35: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.3079 - accuracy: 0.8741 - val_loss: 0.5303 - val_accuracy: 0.7485
Epoch 36/200
56/58 [=====>..] - ETA: 0s - loss: 0.2963 - accuracy: 0.8744

Epoch 36: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.2970 - accuracy: 0.8738 - val_loss: 0.3214 - val_accuracy: 0.8742
Epoch 37/200
56/58 [=====>..] - ETA: 0s - loss: 0.2995 - accuracy: 0.8763
Epoch 37: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.2999 - accuracy: 0.8766 - val_loss: 0.3201 - val_accuracy: 0.8660
Epoch 38/200
56/58 [=====>..] - ETA: 0s - loss: 0.2959 - accuracy: 0.8728
Epoch 38: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.2956 - accuracy: 0.8727 - val_loss: 0.2863 - val_accuracy: 0.8835
Epoch 39/200
57/58 [=====>.] - ETA: 0s - loss: 0.3040 - accuracy: 0.8739
Epoch 39: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.3040 - accuracy: 0.8738 - val_loss: 0.5269 - val_accuracy: 0.7622
Epoch 40/200
56/58 [=====>..] - ETA: 0s - loss: 0.2899 - accuracy: 0.8825
Epoch 40: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.2917 - accuracy: 0.8817 - val_loss: 0.4920 - val_accuracy: 0.7818
Epoch 41/200
56/58 [=====>..] - ETA: 0s - loss: 0.2974 - accuracy: 0.8795
Epoch 41: val_loss did not improve from 0.25750
58/58 [=====] - 1s 13ms/step - loss: 0.2972 - accuracy: 0.8796 - val_loss: 0.6047 - val_accuracy: 0.7310
Epoch 42/200
54/58 [=====>...] - ETA: 0s - loss: 0.2982 - accuracy: 0.8766
Epoch 42: val_loss did not improve from 0.25750
58/58 [=====] - 1s 13ms/step - loss: 0.2966 - accuracy: 0.8770 - val_loss: 0.4124 - val_accuracy: 0.7928
Epoch 43/200
56/58 [=====>..] - ETA: 0s - loss: 0.2974 - accuracy: 0.8765
Epoch 43: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.2980 - accuracy: 0.8759 - val_loss: 0.3094 - val_accuracy: 0.8710
Epoch 44/200
56/58 [=====>..] - ETA: 0s - loss: 0.2907 - accuracy: 0.8782

Epoch 44: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.2904 - accuracy: 0.8778 - val_loss: 0.3421 - val_accuracy: 0.8518
Epoch 45/200
55/58 [=====>..] - ETA: 0s - loss: 0.2946 - accuracy: 0.8791
Epoch 45: val_loss did not improve from 0.25750
58/58 [=====] - 1s 13ms/step - loss: 0.2938 - accuracy: 0.8793 - val_loss: 0.4335 - val_accuracy: 0.7813
Epoch 46/200
55/58 [=====>..] - ETA: 0s - loss: 0.2927 - accuracy: 0.8805
Epoch 46: val_loss did not improve from 0.25750
58/58 [=====] - 1s 13ms/step - loss: 0.2907 - accuracy: 0.8816 - val_loss: 0.3529 - val_accuracy: 0.8453
Epoch 47/200
55/58 [=====>..] - ETA: 0s - loss: 0.2874 - accuracy: 0.8801
Epoch 47: val_loss did not improve from 0.25750
58/58 [=====] - 1s 14ms/step - loss: 0.2876 - accuracy: 0.8802 - val_loss: 0.5442 - val_accuracy: 0.7414
Epoch 48/200
58/58 [=====] - ETA: 0s - loss: 0.2928 - accuracy: 0.8787
Epoch 48: val_loss did not improve from 0.25750
58/58 [=====] - 1s 14ms/step - loss: 0.2928 - accuracy: 0.8787 - val_loss: 0.2785 - val_accuracy: 0.8885
Epoch 49/200
56/58 [=====>..] - ETA: 0s - loss: 0.2795 - accuracy: 0.8845
Epoch 49: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.2796 - accuracy: 0.8848 - val_loss: 0.4506 - val_accuracy: 0.8283
Epoch 50/200
56/58 [=====>..] - ETA: 0s - loss: 0.2880 - accuracy: 0.8788
Epoch 50: val_loss did not improve from 0.25750
58/58 [=====] - 1s 12ms/step - loss: 0.2879 - accuracy: 0.8787 - val_loss: 0.4966 - val_accuracy: 0.7972
Epoch 51/200
56/58 [=====>..] - ETA: 0s - loss: 0.2899 - accuracy: 0.8820
Epoch 51: val_loss did not improve from 0.25750
58/58 [=====] - 1s 13ms/step - loss: 0.2892 - accuracy: 0.8824 - val_loss: 0.6697 - val_accuracy: 0.7332
Epoch 52/200
56/58 [=====>..] - ETA: 0s - loss: 0.2898 - accuracy: 0.8845

Epoch 52: val_loss improved from 0.25750 to 0.24651, saving model to
CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 14ms/step - loss: 0.2920 - accuracy:
0.8837 - val_loss: 0.2465 - val_accuracy: 0.9060
Epoch 53/200
56/58 [=====>..] - ETA: 0s - loss: 0.2809 - accuracy:
0.8852
Epoch 53: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2804 - accuracy:
0.8849 - val_loss: 0.4421 - val_accuracy: 0.8152
Epoch 54/200
56/58 [=====>..] - ETA: 0s - loss: 0.2849 - accuracy:
0.8839
Epoch 54: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2846 - accuracy:
0.8842 - val_loss: 0.3079 - val_accuracy: 0.8699
Epoch 55/200
55/58 [=====>..] - ETA: 0s - loss: 0.2765 - accuracy:
0.8872
Epoch 55: val_loss did not improve from 0.24651
58/58 [=====] - 1s 13ms/step - loss: 0.2784 - accuracy:
0.8864 - val_loss: 0.2549 - val_accuracy: 0.8945
Epoch 56/200
56/58 [=====>..] - ETA: 0s - loss: 0.2833 - accuracy:
0.8802
Epoch 56: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2840 - accuracy:
0.8796 - val_loss: 0.4874 - val_accuracy: 0.7611
Epoch 57/200
56/58 [=====>..] - ETA: 0s - loss: 0.2702 - accuracy:
0.8920
Epoch 57: val_loss did not improve from 0.24651
58/58 [=====] - 1s 13ms/step - loss: 0.2697 - accuracy:
0.8920 - val_loss: 0.2880 - val_accuracy: 0.8934
Epoch 58/200
56/58 [=====>..] - ETA: 0s - loss: 0.2840 - accuracy:
0.8870
Epoch 58: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2845 - accuracy:
0.8864 - val_loss: 0.2539 - val_accuracy: 0.8956
Epoch 59/200
58/58 [=====] - ETA: 0s - loss: 0.2878 - accuracy:
0.8748
Epoch 59: val_loss did not improve from 0.24651
58/58 [=====] - 1s 13ms/step - loss: 0.2878 - accuracy:
0.8748 - val_loss: 0.2932 - val_accuracy: 0.8721
Epoch 60/200
56/58 [=====>..] - ETA: 0s - loss: 0.2776 - accuracy:

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0.8869
Epoch 60: val_loss did not improve from 0.24651
58/58 [=====] - 1s 13ms/step - loss: 0.2780 - accuracy:
0.8871 - val_loss: 0.4699 - val_accuracy: 0.7906
Epoch 61/200
56/58 [=====>..] - ETA: 0s - loss: 0.2810 - accuracy:
0.8862
Epoch 61: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2799 - accuracy:
0.8864 - val_loss: 0.3387 - val_accuracy: 0.8475
Epoch 62/200
55/58 [=====>..] - ETA: 0s - loss: 0.2785 - accuracy:
0.8852
Epoch 62: val_loss did not improve from 0.24651
58/58 [=====] - 1s 13ms/step - loss: 0.2800 - accuracy:
0.8846 - val_loss: 0.5241 - val_accuracy: 0.7747
Epoch 63/200
56/58 [=====>..] - ETA: 0s - loss: 0.2742 - accuracy:
0.8876
Epoch 63: val_loss did not improve from 0.24651
58/58 [=====] - 1s 13ms/step - loss: 0.2744 - accuracy:
0.8867 - val_loss: 0.5285 - val_accuracy: 0.7665
Epoch 64/200
56/58 [=====>..] - ETA: 0s - loss: 0.2686 - accuracy:
0.8931
Epoch 64: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2690 - accuracy:
0.8928 - val_loss: 0.3437 - val_accuracy: 0.8398
Epoch 65/200
56/58 [=====>..] - ETA: 0s - loss: 0.2777 - accuracy:
0.8862
Epoch 65: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2775 - accuracy:
0.8859 - val_loss: 0.3667 - val_accuracy: 0.8289
Epoch 66/200
56/58 [=====>..] - ETA: 0s - loss: 0.2680 - accuracy:
0.8902
Epoch 66: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2679 - accuracy:
0.8898 - val_loss: 0.3054 - val_accuracy: 0.8808
Epoch 67/200
56/58 [=====>..] - ETA: 0s - loss: 0.2615 - accuracy:
0.8943
Epoch 67: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2607 - accuracy:
0.8949 - val_loss: 0.2884 - val_accuracy: 0.8786
Epoch 68/200
56/58 [=====>..] - ETA: 0s - loss: 0.2673 - accuracy:

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0.8919
Epoch 68: val_loss did not improve from 0.24651
58/58 [=====] - 1s 12ms/step - loss: 0.2677 - accuracy:
0.8917 - val_loss: 0.8414 - val_accuracy: 0.6905
Epoch 69/200
56/58 [=====>..] - ETA: 0s - loss: 0.2731 - accuracy:
0.8901
Epoch 69: val_loss improved from 0.24651 to 0.23909, saving model to
CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 15ms/step - loss: 0.2753 - accuracy:
0.8889 - val_loss: 0.2391 - val_accuracy: 0.9065
Epoch 70/200
56/58 [=====>..] - ETA: 0s - loss: 0.2803 - accuracy:
0.8905
Epoch 70: val_loss did not improve from 0.23909
58/58 [=====] - 1s 12ms/step - loss: 0.2800 - accuracy:
0.8905 - val_loss: 0.5499 - val_accuracy: 0.7622
Epoch 71/200
56/58 [=====>..] - ETA: 0s - loss: 0.2665 - accuracy:
0.8887
Epoch 71: val_loss did not improve from 0.23909
58/58 [=====] - 1s 13ms/step - loss: 0.2651 - accuracy:
0.8895 - val_loss: 1.0075 - val_accuracy: 0.5910
Epoch 72/200
54/58 [=====>...] - ETA: 0s - loss: 0.2645 - accuracy:
0.8902
Epoch 72: val_loss did not improve from 0.23909
58/58 [=====] - 1s 12ms/step - loss: 0.2638 - accuracy:
0.8908 - val_loss: 0.2846 - val_accuracy: 0.8819
Epoch 73/200
57/58 [=====>.] - ETA: 0s - loss: 0.2657 - accuracy:
0.8934
Epoch 73: val_loss did not improve from 0.23909
58/58 [=====] - 1s 13ms/step - loss: 0.2656 - accuracy:
0.8932 - val_loss: 0.4045 - val_accuracy: 0.8245
Epoch 74/200
56/58 [=====>..] - ETA: 0s - loss: 0.2672 - accuracy:
0.8896
Epoch 74: val_loss did not improve from 0.23909
58/58 [=====] - 1s 13ms/step - loss: 0.2676 - accuracy:
0.8895 - val_loss: 0.4132 - val_accuracy: 0.8212
Epoch 75/200
56/58 [=====>..] - ETA: 0s - loss: 0.2617 - accuracy:
0.8933
Epoch 75: val_loss did not improve from 0.23909
58/58 [=====] - 1s 12ms/step - loss: 0.2600 - accuracy:
0.8942 - val_loss: 0.2602 - val_accuracy: 0.8934
Epoch 76/200

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56/58 [=====>...] - ETA: 0s - loss: 0.2722 - accuracy:
0.8931
Epoch 76: val_loss did not improve from 0.23909
58/58 [=====] - 1s 12ms/step - loss: 0.2728 - accuracy:
0.8925 - val_loss: 0.2915 - val_accuracy: 0.8824
Epoch 77/200
56/58 [=====>...] - ETA: 0s - loss: 0.2589 - accuracy:
0.8956
Epoch 77: val_loss improved from 0.23909 to 0.22668, saving model to
CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 14ms/step - loss: 0.2598 - accuracy:
0.8947 - val_loss: 0.2267 - val_accuracy: 0.9087
Epoch 78/200
56/58 [=====>...] - ETA: 0s - loss: 0.2699 - accuracy:
0.8923
Epoch 78: val_loss did not improve from 0.22668
58/58 [=====] - 1s 12ms/step - loss: 0.2712 - accuracy:
0.8917 - val_loss: 0.2698 - val_accuracy: 0.8994
Epoch 79/200
56/58 [=====>...] - ETA: 0s - loss: 0.2537 - accuracy:
0.8969
Epoch 79: val_loss did not improve from 0.22668
58/58 [=====] - 1s 12ms/step - loss: 0.2551 - accuracy:
0.8960 - val_loss: 0.3843 - val_accuracy: 0.8393
Epoch 80/200
55/58 [=====>...] - ETA: 0s - loss: 0.2616 - accuracy:
0.8952
Epoch 80: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2617 - accuracy:
0.8951 - val_loss: 0.4305 - val_accuracy: 0.8256
Epoch 81/200
56/58 [=====>...] - ETA: 0s - loss: 0.2661 - accuracy:
0.8959
Epoch 81: val_loss did not improve from 0.22668
58/58 [=====] - 1s 12ms/step - loss: 0.2661 - accuracy:
0.8953 - val_loss: 0.3544 - val_accuracy: 0.8540
Epoch 82/200
56/58 [=====>...] - ETA: 0s - loss: 0.2646 - accuracy:
0.8923
Epoch 82: val_loss did not improve from 0.22668
58/58 [=====] - 1s 12ms/step - loss: 0.2642 - accuracy:
0.8925 - val_loss: 0.5503 - val_accuracy: 0.6971
Epoch 83/200
58/58 [=====] - ETA: 0s - loss: 0.2704 - accuracy:
0.8869
Epoch 83: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2704 - accuracy:
0.8869 - val_loss: 0.3653 - val_accuracy: 0.8272

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Epoch 84/200
56/58 [=====>...] - ETA: 0s - loss: 0.2542 - accuracy: 0.9023
Epoch 84: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2548 - accuracy: 0.9023 - val_loss: 0.3783 - val_accuracy: 0.8300
Epoch 85/200
55/58 [=====>...] - ETA: 0s - loss: 0.2505 - accuracy: 0.8969
Epoch 85: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2497 - accuracy: 0.8976 - val_loss: 0.6815 - val_accuracy: 0.6916
Epoch 86/200
56/58 [=====>...] - ETA: 0s - loss: 0.2386 - accuracy: 0.9058
Epoch 86: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2386 - accuracy: 0.9057 - val_loss: 0.3411 - val_accuracy: 0.8666
Epoch 87/200
56/58 [=====>...] - ETA: 0s - loss: 0.2252 - accuracy: 0.9117
Epoch 87: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2246 - accuracy: 0.9121 - val_loss: 0.2819 - val_accuracy: 0.8956
Epoch 88/200
56/58 [=====>...] - ETA: 0s - loss: 0.2274 - accuracy: 0.9071
Epoch 88: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2287 - accuracy: 0.9068 - val_loss: 0.3405 - val_accuracy: 0.8595
Epoch 89/200
56/58 [=====>...] - ETA: 0s - loss: 0.2143 - accuracy: 0.9132
Epoch 89: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2151 - accuracy: 0.9132 - val_loss: 0.3083 - val_accuracy: 0.8830
Epoch 90/200
55/58 [=====>...] - ETA: 0s - loss: 0.2167 - accuracy: 0.9138
Epoch 90: val_loss did not improve from 0.22668
58/58 [=====] - 1s 15ms/step - loss: 0.2157 - accuracy: 0.9139 - val_loss: 0.4571 - val_accuracy: 0.8212
Epoch 91/200
54/58 [=====>...] - ETA: 0s - loss: 0.2041 - accuracy: 0.9158
Epoch 91: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2052 - accuracy: 0.9161 - val_loss: 0.2440 - val_accuracy: 0.9076

Epoch 92/200
56/58 [=====>..] - ETA: 0s - loss: 0.2024 - accuracy: 0.9189
Epoch 92: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2025 - accuracy: 0.9188 - val_loss: 0.3033 - val_accuracy: 0.8874
Epoch 93/200
57/58 [=====>.] - ETA: 0s - loss: 0.2013 - accuracy: 0.9202
Epoch 93: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.2013 - accuracy: 0.9203 - val_loss: 0.3290 - val_accuracy: 0.8732
Epoch 94/200
56/58 [=====>..] - ETA: 0s - loss: 0.1987 - accuracy: 0.9195
Epoch 94: val_loss did not improve from 0.22668
58/58 [=====] - 1s 12ms/step - loss: 0.1998 - accuracy: 0.9187 - val_loss: 0.8554 - val_accuracy: 0.7266
Epoch 95/200
56/58 [=====>..] - ETA: 0s - loss: 0.1969 - accuracy: 0.9194
Epoch 95: val_loss did not improve from 0.22668
58/58 [=====] - 1s 13ms/step - loss: 0.1972 - accuracy: 0.9193 - val_loss: 0.4976 - val_accuracy: 0.7944
Epoch 96/200
56/58 [=====>..] - ETA: 0s - loss: 0.1953 - accuracy: 0.9202
Epoch 96: val_loss improved from 0.22668 to 0.22504, saving model to CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 14ms/step - loss: 0.1967 - accuracy: 0.9200 - val_loss: 0.2250 - val_accuracy: 0.9218
Epoch 97/200
55/58 [=====>..] - ETA: 0s - loss: 0.2002 - accuracy: 0.9178
Epoch 97: val_loss did not improve from 0.22504
58/58 [=====] - 1s 13ms/step - loss: 0.1998 - accuracy: 0.9181 - val_loss: 0.2326 - val_accuracy: 0.9174
Epoch 98/200
56/58 [=====>..] - ETA: 0s - loss: 0.1989 - accuracy: 0.9191
Epoch 98: val_loss did not improve from 0.22504
58/58 [=====] - 1s 13ms/step - loss: 0.1978 - accuracy: 0.9195 - val_loss: 0.2293 - val_accuracy: 0.9202
Epoch 99/200
55/58 [=====>..] - ETA: 0s - loss: 0.2002 - accuracy: 0.9219
Epoch 99: val_loss did not improve from 0.22504
58/58 [=====] - 1s 13ms/step - loss: 0.2003 - accuracy:

0.9222 - val_loss: 0.2341 - val_accuracy: 0.9185
 Epoch 100/200
 57/58 [=====>.] - ETA: 0s - loss: 0.1943 - accuracy:
 0.9227
 Epoch 100: val_loss did not improve from 0.22504
 58/58 [=====] - 1s 13ms/step - loss: 0.1951 - accuracy:
 0.9224 - val_loss: 0.4467 - val_accuracy: 0.8256
 Epoch 101/200
 56/58 [=====>..] - ETA: 0s - loss: 0.1934 - accuracy:
 0.9238
 Epoch 101: val_loss did not improve from 0.22504
 58/58 [=====] - 1s 13ms/step - loss: 0.1929 - accuracy:
 0.9239 - val_loss: 0.7577 - val_accuracy: 0.7305
 Epoch 102/200
 56/58 [=====>..] - ETA: 0s - loss: 0.1935 - accuracy:
 0.9238
 Epoch 102: val_loss improved from 0.22504 to 0.22035, saving model to
 CNN_LSTM_MODEL_ON_FEATURE_EXTRACTED.h5
 58/58 [=====] - 1s 14ms/step - loss: 0.1975 - accuracy:
 0.9226 - val_loss: 0.2204 - val_accuracy: 0.9224
 Epoch 103/200
 56/58 [=====>..] - ETA: 0s - loss: 0.1926 - accuracy:
 0.9259
 Epoch 103: val_loss did not improve from 0.22035
 58/58 [=====] - 1s 13ms/step - loss: 0.1914 - accuracy:
 0.9260 - val_loss: 0.4352 - val_accuracy: 0.8218
 Epoch 104/200
 56/58 [=====>..] - ETA: 0s - loss: 0.1850 - accuracy:
 0.9291
 Epoch 104: val_loss did not improve from 0.22035
 58/58 [=====] - 1s 12ms/step - loss: 0.1859 - accuracy:
 0.9289 - val_loss: 0.3002 - val_accuracy: 0.8868
 Epoch 105/200
 56/58 [=====>..] - ETA: 0s - loss: 0.1881 - accuracy:
 0.9270
 Epoch 105: val_loss did not improve from 0.22035
 58/58 [=====] - 1s 12ms/step - loss: 0.1875 - accuracy:
 0.9271 - val_loss: 0.2674 - val_accuracy: 0.9038
 Epoch 106/200
 56/58 [=====>..] - ETA: 0s - loss: 0.1805 - accuracy:
 0.9256
 Epoch 106: val_loss did not improve from 0.22035
 58/58 [=====] - 1s 12ms/step - loss: 0.1814 - accuracy:
 0.9255 - val_loss: 0.2723 - val_accuracy: 0.8956
 Epoch 107/200
 56/58 [=====>..] - ETA: 0s - loss: 0.1787 - accuracy:
 0.9305
 Epoch 107: val_loss did not improve from 0.22035

58/58 [=====] - 1s 12ms/step - loss: 0.1791 - accuracy: 0.9303 - val_loss: 0.3409 - val_accuracy: 0.8732
Epoch 108/200
56/58 [=====>..] - ETA: 0s - loss: 0.1852 - accuracy: 0.9247
Epoch 108: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1841 - accuracy: 0.9254 - val_loss: 0.3201 - val_accuracy: 0.8824
Epoch 109/200
56/58 [=====>..] - ETA: 0s - loss: 0.1825 - accuracy: 0.9279
Epoch 109: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1825 - accuracy: 0.9275 - val_loss: 0.3269 - val_accuracy: 0.8715
Epoch 110/200
56/58 [=====>..] - ETA: 0s - loss: 0.1794 - accuracy: 0.9272
Epoch 110: val_loss did not improve from 0.22035
58/58 [=====] - 1s 13ms/step - loss: 0.1788 - accuracy: 0.9274 - val_loss: 0.2429 - val_accuracy: 0.9185
Epoch 111/200
56/58 [=====>..] - ETA: 0s - loss: 0.1785 - accuracy: 0.9276
Epoch 111: val_loss did not improve from 0.22035
58/58 [=====] - 1s 13ms/step - loss: 0.1777 - accuracy: 0.9280 - val_loss: 0.2831 - val_accuracy: 0.8967
Epoch 112/200
56/58 [=====>..] - ETA: 0s - loss: 0.1808 - accuracy: 0.9283
Epoch 112: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1797 - accuracy: 0.9288 - val_loss: 0.2745 - val_accuracy: 0.8956
Epoch 113/200
58/58 [=====] - ETA: 0s - loss: 0.1807 - accuracy: 0.9307
Epoch 113: val_loss did not improve from 0.22035
58/58 [=====] - 1s 13ms/step - loss: 0.1807 - accuracy: 0.9307 - val_loss: 0.2227 - val_accuracy: 0.9213
Epoch 114/200
56/58 [=====>..] - ETA: 0s - loss: 0.1700 - accuracy: 0.9330
Epoch 114: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1701 - accuracy: 0.9329 - val_loss: 0.2429 - val_accuracy: 0.9158
Epoch 115/200
56/58 [=====>..] - ETA: 0s - loss: 0.1742 - accuracy: 0.9314
Epoch 115: val_loss did not improve from 0.22035

58/58 [=====] - 1s 12ms/step - loss: 0.1743 - accuracy: 0.9310 - val_loss: 0.2550 - val_accuracy: 0.9081
Epoch 116/200
56/58 [=====>..] - ETA: 0s - loss: 0.1723 - accuracy: 0.9325
Epoch 116: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1722 - accuracy: 0.9325 - val_loss: 0.2389 - val_accuracy: 0.9174
Epoch 117/200
56/58 [=====>..] - ETA: 0s - loss: 0.1680 - accuracy: 0.9330
Epoch 117: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1691 - accuracy: 0.9326 - val_loss: 0.3840 - val_accuracy: 0.8611
Epoch 118/200
56/58 [=====>..] - ETA: 0s - loss: 0.1644 - accuracy: 0.9360
Epoch 118: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1632 - accuracy: 0.9366 - val_loss: 0.3214 - val_accuracy: 0.8835
Epoch 119/200
56/58 [=====>..] - ETA: 0s - loss: 0.1638 - accuracy: 0.9368
Epoch 119: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1677 - accuracy: 0.9353 - val_loss: 0.4684 - val_accuracy: 0.8245
Epoch 120/200
56/58 [=====>..] - ETA: 0s - loss: 0.1766 - accuracy: 0.9283
Epoch 120: val_loss did not improve from 0.22035
58/58 [=====] - 1s 13ms/step - loss: 0.1767 - accuracy: 0.9281 - val_loss: 0.4324 - val_accuracy: 0.8179
Epoch 121/200
56/58 [=====>..] - ETA: 0s - loss: 0.1638 - accuracy: 0.9346
Epoch 121: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1632 - accuracy: 0.9347 - val_loss: 0.3250 - val_accuracy: 0.8835
Epoch 122/200
56/58 [=====>..] - ETA: 0s - loss: 0.1708 - accuracy: 0.9340
Epoch 122: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1713 - accuracy: 0.9333 - val_loss: 0.3033 - val_accuracy: 0.8852
Epoch 123/200
56/58 [=====>..] - ETA: 0s - loss: 0.1686 - accuracy: 0.9335
Epoch 123: val_loss did not improve from 0.22035

58/58 [=====] - 1s 12ms/step - loss: 0.1674 - accuracy: 0.9340 - val_loss: 0.2697 - val_accuracy: 0.9016
Epoch 124/200
55/58 [=====>..] - ETA: 0s - loss: 0.1628 - accuracy: 0.9375
Epoch 124: val_loss did not improve from 0.22035
58/58 [=====] - 1s 13ms/step - loss: 0.1648 - accuracy: 0.9374 - val_loss: 0.3437 - val_accuracy: 0.8841
Epoch 125/200
55/58 [=====>..] - ETA: 0s - loss: 0.1557 - accuracy: 0.9385
Epoch 125: val_loss did not improve from 0.22035
58/58 [=====] - 1s 13ms/step - loss: 0.1564 - accuracy: 0.9386 - val_loss: 0.3086 - val_accuracy: 0.8950
Epoch 126/200
56/58 [=====>..] - ETA: 0s - loss: 0.1588 - accuracy: 0.9358
Epoch 126: val_loss did not improve from 0.22035
58/58 [=====] - 1s 13ms/step - loss: 0.1590 - accuracy: 0.9359 - val_loss: 0.2629 - val_accuracy: 0.9120
Epoch 127/200
58/58 [=====] - ETA: 0s - loss: 0.1532 - accuracy: 0.9389
Epoch 127: val_loss did not improve from 0.22035
58/58 [=====] - 1s 13ms/step - loss: 0.1532 - accuracy: 0.9389 - val_loss: 0.3952 - val_accuracy: 0.8535
Epoch 128/200
56/58 [=====>..] - ETA: 0s - loss: 0.1566 - accuracy: 0.9400
Epoch 128: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1579 - accuracy: 0.9392 - val_loss: 0.6372 - val_accuracy: 0.7840
Epoch 129/200
56/58 [=====>..] - ETA: 0s - loss: 0.1670 - accuracy: 0.9340
Epoch 129: val_loss did not improve from 0.22035
58/58 [=====] - 1s 13ms/step - loss: 0.1666 - accuracy: 0.9342 - val_loss: 0.2365 - val_accuracy: 0.9191
Epoch 130/200
56/58 [=====>..] - ETA: 0s - loss: 0.1542 - accuracy: 0.9400
Epoch 130: val_loss did not improve from 0.22035
58/58 [=====] - 1s 12ms/step - loss: 0.1578 - accuracy: 0.9382 - val_loss: 0.6147 - val_accuracy: 0.7922
Epoch 131/200
55/58 [=====>..] - ETA: 0s - loss: 0.1568 - accuracy: 0.9396
Epoch 131: val_loss did not improve from 0.22035


```

58/58 [=====] - 1s 13ms/step - loss: 0.1589 - accuracy:
0.9383 - val_loss: 0.2703 - val_accuracy: 0.9081
Epoch 132/200
57/58 [=====>.] - ETA: 0s - loss: 0.1656 - accuracy:
0.9361
Epoch 132: val_loss did not improve from 0.22035
58/58 [=====] - 1s 15ms/step - loss: 0.1658 - accuracy:
0.9360 - val_loss: 0.2628 - val_accuracy: 0.9131
Epoch 132: early stopping

```

```

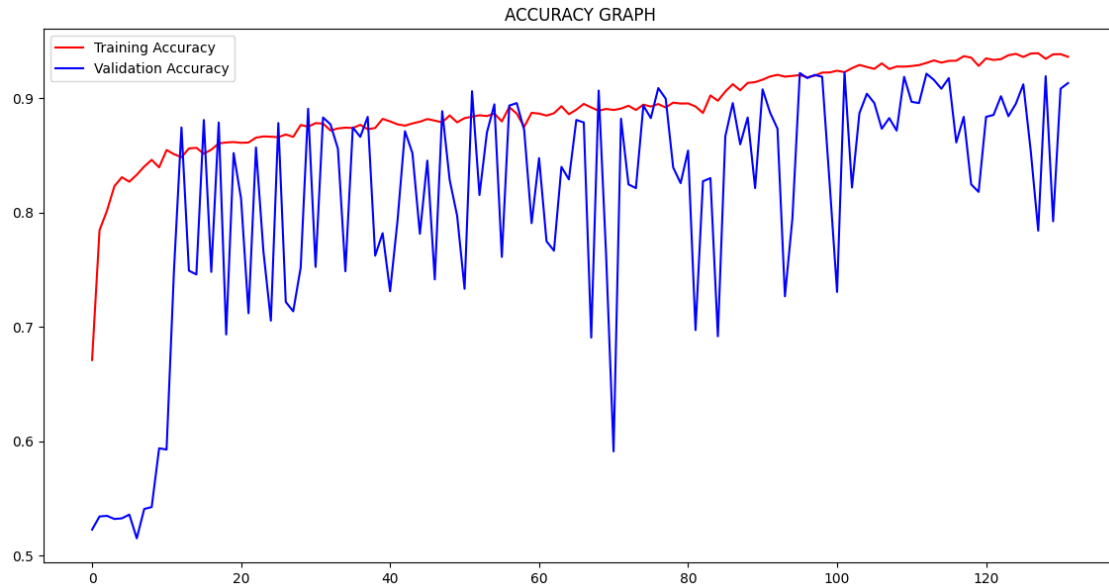
[202]: CNN_LSTM_model1.evaluate(X_test1,Y_test1)
eval_graph(CNN_LSTM_results_1)
conf_matrix(X_test1,Y_test1,CNN_LSTM_model1)

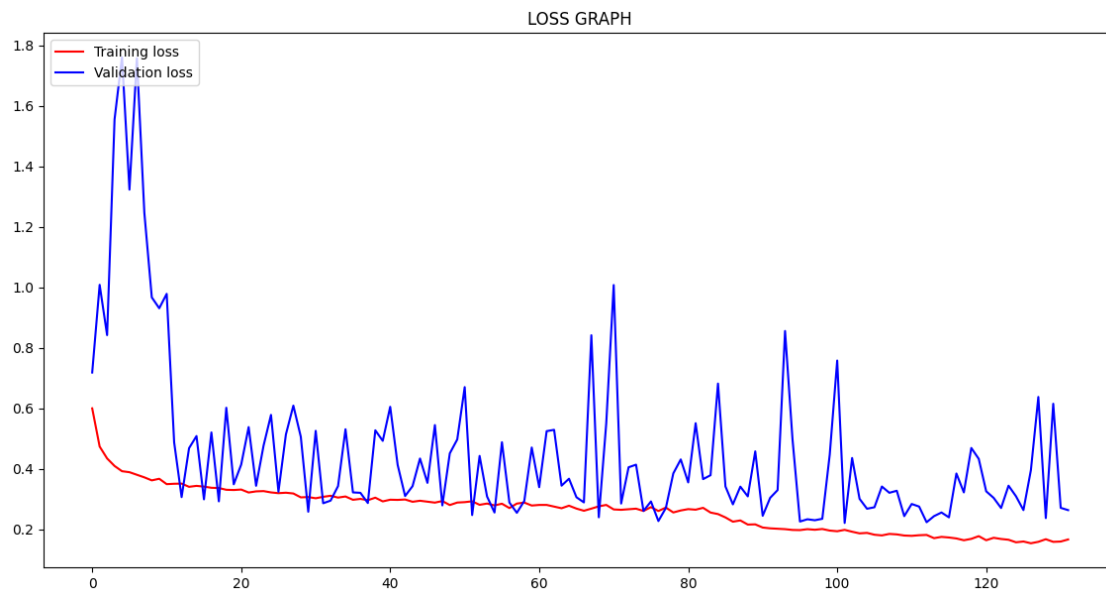
```

```

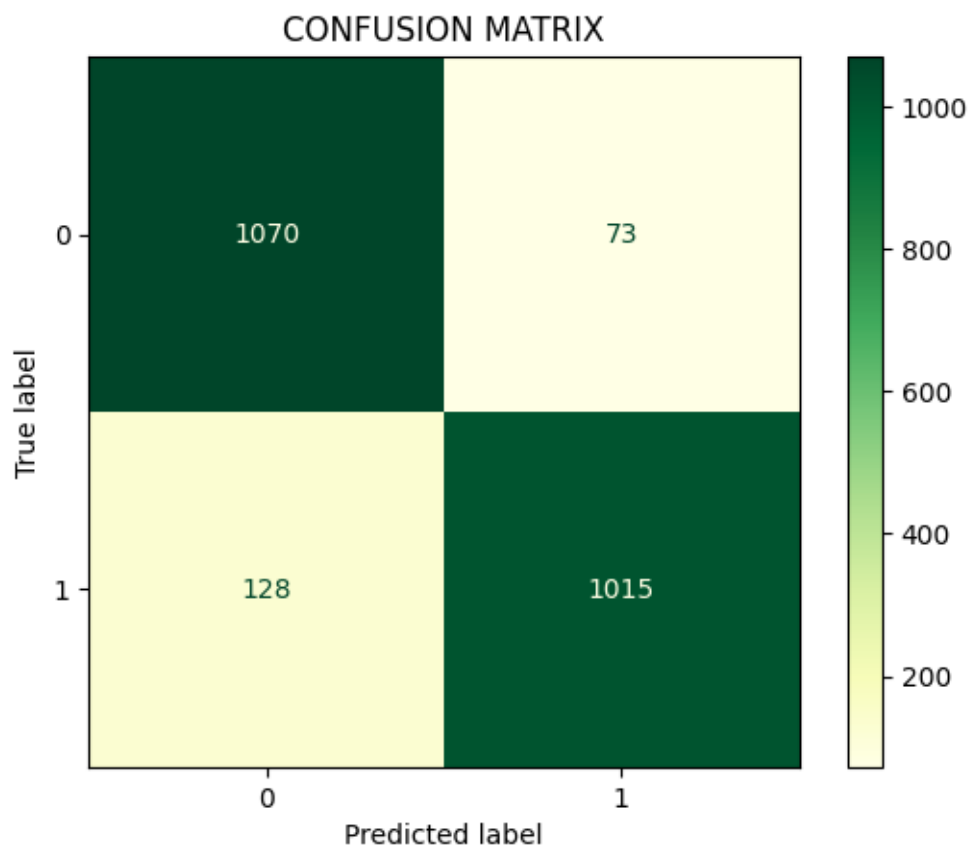
72/72 [=====] - 0s 4ms/step - loss: 0.2641 - accuracy:
0.9121

```





72/72 [=====] - 0s 3ms/step



0.10 CNN_LSTM MODEL ON SECOND DATASET

```
[203]: CNN_LSTM_model2.  
        compile(optimizer='adam',loss='binary_crossentropy',metrics=['accuracy'])  
  
callbacks = [tf.keras.callbacks.  
             ModelCheckpoint('CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.  
             h5',verbose=1,save_best_only=True),  
             tf.keras.callbacks.EarlyStopping(monitor='val_loss',min_delta=0.  
             001,patience=30,verbose=1)]  
CNN_LSTM_results_2 = CNN_LSTM_model2.fit(X_train2,Y_train2,validation_split=0.  
             2,batch_size=128,epochs=200,callbacks=callbacks)
```

Epoch 1/200

58/58 [=====] - ETA: 0s - loss: 0.5372 - accuracy:
0.7275

Epoch 1: val_loss improved from inf to 0.69274, saving model to
CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5

58/58 [=====] - 9s 34ms/step - loss: 0.5372 - accuracy:
0.7275 - val_loss: 0.6927 - val_accuracy: 0.5036

Epoch 2/200

4/58 [=>...] - ETA: 1s - loss: 0.4540 - accuracy:
0.7910

```
/opt/conda/lib/python3.10/site-packages/keras/src/engine/training.py:3000:  
UserWarning: You are saving your model as an HDF5 file via `model.save()`. This  
file format is considered legacy. We recommend using instead the native Keras  
format, e.g. `model.save('my_model.keras')`.  
saving_api.save_model(  

```

58/58 [=====] - ETA: 0s - loss: 0.4327 - accuracy:
0.8075

Epoch 2: val_loss did not improve from 0.69274

58/58 [=====] - 1s 21ms/step - loss: 0.4327 - accuracy:
0.8075 - val_loss: 0.7220 - val_accuracy: 0.5036

Epoch 3/200

58/58 [=====] - ETA: 0s - loss: 0.3820 - accuracy:
0.8357

Epoch 3: val_loss did not improve from 0.69274

58/58 [=====] - 1s 21ms/step - loss: 0.3820 - accuracy:
0.8357 - val_loss: 0.7960 - val_accuracy: 0.5036

Epoch 4/200

58/58 [=====] - ETA: 0s - loss: 0.3544 - accuracy:
0.8437

Epoch 4: val_loss improved from 0.69274 to 0.67948, saving model to
CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5

58/58 [=====] - 1s 23ms/step - loss: 0.3544 - accuracy: 0.8437 - val_loss: 0.6795 - val_accuracy: 0.5921
Epoch 5/200
58/58 [=====] - ETA: 0s - loss: 0.3204 - accuracy: 0.8637
Epoch 5: val_loss improved from 0.67948 to 0.61524, saving model to CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 23ms/step - loss: 0.3204 - accuracy: 0.8637 - val_loss: 0.6152 - val_accuracy: 0.6441
Epoch 6/200
58/58 [=====] - ETA: 0s - loss: 0.2941 - accuracy: 0.8733
Epoch 6: val_loss improved from 0.61524 to 0.52775, saving model to CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 23ms/step - loss: 0.2941 - accuracy: 0.8733 - val_loss: 0.5277 - val_accuracy: 0.7485
Epoch 7/200
58/58 [=====] - ETA: 0s - loss: 0.2816 - accuracy: 0.8834
Epoch 7: val_loss improved from 0.52775 to 0.43738, saving model to CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 23ms/step - loss: 0.2816 - accuracy: 0.8834 - val_loss: 0.4374 - val_accuracy: 0.7911
Epoch 8/200
58/58 [=====] - ETA: 0s - loss: 0.2503 - accuracy: 0.8947
Epoch 8: val_loss improved from 0.43738 to 0.35801, saving model to CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 23ms/step - loss: 0.2503 - accuracy: 0.8947 - val_loss: 0.3580 - val_accuracy: 0.8420
Epoch 9/200
55/58 [=====>..] - ETA: 0s - loss: 0.2414 - accuracy: 0.8982
Epoch 9: val_loss improved from 0.35801 to 0.30340, saving model to CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 24ms/step - loss: 0.2398 - accuracy: 0.8991 - val_loss: 0.3034 - val_accuracy: 0.8688
Epoch 10/200
55/58 [=====>..] - ETA: 0s - loss: 0.2221 - accuracy: 0.9024
Epoch 10: val_loss improved from 0.30340 to 0.29194, saving model to CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 22ms/step - loss: 0.2227 - accuracy: 0.9018 - val_loss: 0.2919 - val_accuracy: 0.8841
Epoch 11/200
58/58 [=====] - ETA: 0s - loss: 0.2078 - accuracy: 0.9107
Epoch 11: val_loss improved from 0.29194 to 0.28525, saving model to

```

CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 23ms/step - loss: 0.2078 - accuracy:
0.9107 - val_loss: 0.2853 - val_accuracy: 0.8885
Epoch 12/200
55/58 [=====>..] - ETA: 0s - loss: 0.2024 - accuracy:
0.9141
Epoch 12: val_loss improved from 0.28525 to 0.27813, saving model to
CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 23ms/step - loss: 0.2017 - accuracy:
0.9147 - val_loss: 0.2781 - val_accuracy: 0.8907
Epoch 13/200
58/58 [=====] - ETA: 0s - loss: 0.1914 - accuracy:
0.9215
Epoch 13: val_loss did not improve from 0.27813
58/58 [=====] - 1s 21ms/step - loss: 0.1914 - accuracy:
0.9215 - val_loss: 0.2800 - val_accuracy: 0.8939
Epoch 14/200
55/58 [=====>..] - ETA: 0s - loss: 0.1825 - accuracy:
0.9220
Epoch 14: val_loss improved from 0.27813 to 0.26378, saving model to
CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 23ms/step - loss: 0.1828 - accuracy:
0.9218 - val_loss: 0.2638 - val_accuracy: 0.9027
Epoch 15/200
58/58 [=====] - ETA: 0s - loss: 0.1673 - accuracy:
0.9316
Epoch 15: val_loss did not improve from 0.26378
58/58 [=====] - 1s 21ms/step - loss: 0.1673 - accuracy:
0.9316 - val_loss: 0.2731 - val_accuracy: 0.8983
Epoch 16/200
58/58 [=====] - ETA: 0s - loss: 0.1814 - accuracy:
0.9239
Epoch 16: val_loss improved from 0.26378 to 0.25982, saving model to
CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 24ms/step - loss: 0.1814 - accuracy:
0.9239 - val_loss: 0.2598 - val_accuracy: 0.9005
Epoch 17/200
58/58 [=====] - ETA: 0s - loss: 0.1680 - accuracy:
0.9327
Epoch 17: val_loss did not improve from 0.25982
58/58 [=====] - 1s 21ms/step - loss: 0.1680 - accuracy:
0.9327 - val_loss: 0.2627 - val_accuracy: 0.8994
Epoch 18/200
58/58 [=====] - ETA: 0s - loss: 0.1618 - accuracy:
0.9338
Epoch 18: val_loss did not improve from 0.25982
58/58 [=====] - 1s 21ms/step - loss: 0.1618 - accuracy:
0.9338 - val_loss: 0.2623 - val_accuracy: 0.8972

```

Epoch 19/200
58/58 [=====] - ETA: 0s - loss: 0.1580 - accuracy: 0.9333
Epoch 19: val_loss improved from 0.25982 to 0.25510, saving model to CNN_LSTM_MODEL_ON_NON_FEATURE_EXTRACTED.h5
58/58 [=====] - 1s 23ms/step - loss: 0.1580 - accuracy: 0.9333 - val_loss: 0.2551 - val_accuracy: 0.8961
Epoch 20/200
58/58 [=====] - ETA: 0s - loss: 0.1510 - accuracy: 0.9390
Epoch 20: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1510 - accuracy: 0.9390 - val_loss: 0.2969 - val_accuracy: 0.8961
Epoch 21/200
58/58 [=====] - ETA: 0s - loss: 0.1500 - accuracy: 0.9382
Epoch 21: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1500 - accuracy: 0.9382 - val_loss: 0.2553 - val_accuracy: 0.8983
Epoch 22/200
58/58 [=====] - ETA: 0s - loss: 0.1495 - accuracy: 0.9357
Epoch 22: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1495 - accuracy: 0.9357 - val_loss: 0.2672 - val_accuracy: 0.9049
Epoch 23/200
58/58 [=====] - ETA: 0s - loss: 0.1384 - accuracy: 0.9433
Epoch 23: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1384 - accuracy: 0.9433 - val_loss: 0.2734 - val_accuracy: 0.8994
Epoch 24/200
58/58 [=====] - ETA: 0s - loss: 0.1454 - accuracy: 0.9397
Epoch 24: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1454 - accuracy: 0.9397 - val_loss: 0.2959 - val_accuracy: 0.9060
Epoch 25/200
55/58 [=====>...] - ETA: 0s - loss: 0.1452 - accuracy: 0.9391
Epoch 25: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1453 - accuracy: 0.9385 - val_loss: 0.2784 - val_accuracy: 0.9016
Epoch 26/200
58/58 [=====] - ETA: 0s - loss: 0.1342 - accuracy: 0.9460
Epoch 26: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1342 - accuracy:

0.9460 - val_loss: 0.2972 - val_accuracy: 0.9032
Epoch 27/200
58/58 [=====] - ETA: 0s - loss: 0.1357 - accuracy:
0.9437
Epoch 27: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1357 - accuracy:
0.9437 - val_loss: 0.2993 - val_accuracy: 0.9060
Epoch 28/200
58/58 [=====] - ETA: 0s - loss: 0.1379 - accuracy:
0.9430
Epoch 28: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1379 - accuracy:
0.9430 - val_loss: 0.3034 - val_accuracy: 0.9010
Epoch 29/200
58/58 [=====] - ETA: 0s - loss: 0.1298 - accuracy:
0.9481
Epoch 29: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1298 - accuracy:
0.9481 - val_loss: 0.2786 - val_accuracy: 0.9054
Epoch 30/200
58/58 [=====] - ETA: 0s - loss: 0.1298 - accuracy:
0.9449
Epoch 30: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1298 - accuracy:
0.9449 - val_loss: 0.2900 - val_accuracy: 0.9049
Epoch 31/200
55/58 [=====>..] - ETA: 0s - loss: 0.1344 - accuracy:
0.9459
Epoch 31: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1369 - accuracy:
0.9450 - val_loss: 0.2780 - val_accuracy: 0.9060
Epoch 32/200
55/58 [=====>..] - ETA: 0s - loss: 0.1323 - accuracy:
0.9429
Epoch 32: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1319 - accuracy:
0.9435 - val_loss: 0.2804 - val_accuracy: 0.9043
Epoch 33/200
58/58 [=====] - ETA: 0s - loss: 0.1230 - accuracy:
0.9498
Epoch 33: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1230 - accuracy:
0.9498 - val_loss: 0.2974 - val_accuracy: 0.9065
Epoch 34/200
58/58 [=====] - ETA: 0s - loss: 0.1235 - accuracy:
0.9483
Epoch 34: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1235 - accuracy:

0.9483 - val_loss: 0.3088 - val_accuracy: 0.9076
Epoch 35/200
58/58 [=====] - ETA: 0s - loss: 0.1273 - accuracy: 0.9463
Epoch 35: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1273 - accuracy: 0.9463 - val_loss: 0.2885 - val_accuracy: 0.9109
Epoch 36/200
55/58 [=====>..] - ETA: 0s - loss: 0.1270 - accuracy: 0.9476
Epoch 36: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1284 - accuracy: 0.9470 - val_loss: 0.2979 - val_accuracy: 0.9027
Epoch 37/200
58/58 [=====] - ETA: 0s - loss: 0.1253 - accuracy: 0.9493
Epoch 37: val_loss did not improve from 0.25510
58/58 [=====] - 1s 20ms/step - loss: 0.1253 - accuracy: 0.9493 - val_loss: 0.2818 - val_accuracy: 0.9065
Epoch 38/200
58/58 [=====] - ETA: 0s - loss: 0.1260 - accuracy: 0.9478
Epoch 38: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1260 - accuracy: 0.9478 - val_loss: 0.2877 - val_accuracy: 0.9016
Epoch 39/200
58/58 [=====] - ETA: 0s - loss: 0.1269 - accuracy: 0.9464
Epoch 39: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1269 - accuracy: 0.9464 - val_loss: 0.2894 - val_accuracy: 0.9065
Epoch 40/200
55/58 [=====>..] - ETA: 0s - loss: 0.1276 - accuracy: 0.9477
Epoch 40: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1272 - accuracy: 0.9481 - val_loss: 0.2904 - val_accuracy: 0.9054
Epoch 41/200
55/58 [=====>..] - ETA: 0s - loss: 0.1231 - accuracy: 0.9499
Epoch 41: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1226 - accuracy: 0.9504 - val_loss: 0.2963 - val_accuracy: 0.9054
Epoch 42/200
58/58 [=====] - ETA: 0s - loss: 0.1189 - accuracy: 0.9502
Epoch 42: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1189 - accuracy:


```

0.9502 - val_loss: 0.3048 - val_accuracy: 0.8983
Epoch 43/200
58/58 [=====] - ETA: 0s - loss: 0.1153 - accuracy:
0.9511
Epoch 43: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1153 - accuracy:
0.9511 - val_loss: 0.2976 - val_accuracy: 0.9038
Epoch 44/200
58/58 [=====] - ETA: 0s - loss: 0.1172 - accuracy:
0.9524
Epoch 44: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1172 - accuracy:
0.9524 - val_loss: 0.3216 - val_accuracy: 0.9049
Epoch 45/200
58/58 [=====] - ETA: 0s - loss: 0.1166 - accuracy:
0.9511
Epoch 45: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1166 - accuracy:
0.9511 - val_loss: 0.3375 - val_accuracy: 0.8961
Epoch 46/200
58/58 [=====] - ETA: 0s - loss: 0.1133 - accuracy:
0.9530
Epoch 46: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1133 - accuracy:
0.9530 - val_loss: 0.3154 - val_accuracy: 0.9054
Epoch 47/200
55/58 [=====>..] - ETA: 0s - loss: 0.1206 - accuracy:
0.9514
Epoch 47: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1215 - accuracy:
0.9511 - val_loss: 0.3214 - val_accuracy: 0.9021
Epoch 48/200
58/58 [=====] - ETA: 0s - loss: 0.1200 - accuracy:
0.9501
Epoch 48: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1200 - accuracy:
0.9501 - val_loss: 0.3080 - val_accuracy: 0.9054
Epoch 49/200
58/58 [=====] - ETA: 0s - loss: 0.1162 - accuracy:
0.9523
Epoch 49: val_loss did not improve from 0.25510
58/58 [=====] - 1s 21ms/step - loss: 0.1162 - accuracy:
0.9523 - val_loss: 0.3197 - val_accuracy: 0.9016
Epoch 49: early stopping

```

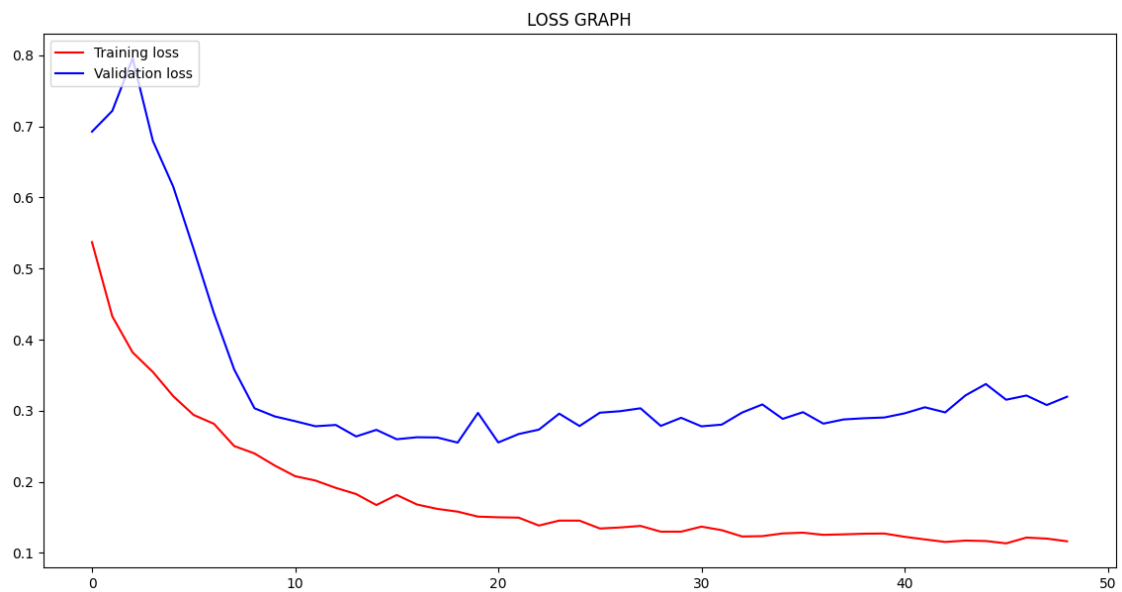
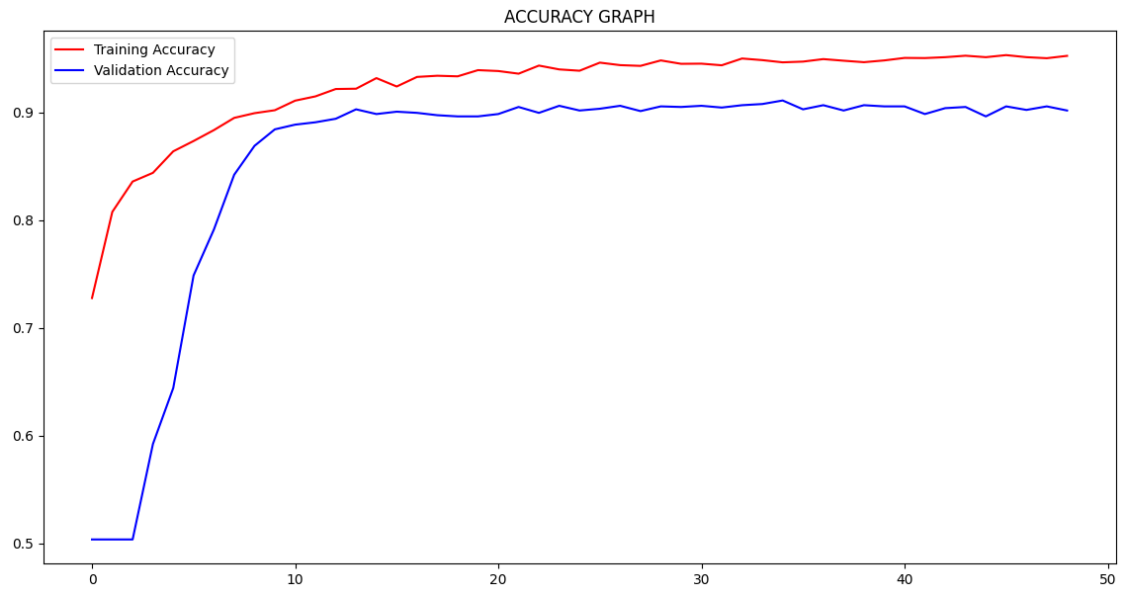
```

[204]: CNN_LSTM_model2.evaluate(X_test2,Y_test2)
eval_graph(CNN_LSTM_results_2)

```

```
conf_matrix(X_test2,Y_test2,CNN_LSTM_model2)
```

72/72 [=====] - 0s 5ms/step - loss: 0.3131 - accuracy: 0.9143



72/72 [=====] - 1s 3ms/step

