

```
In [ ]: from google.colab import drive  
drive.mount('/content/gdrive/')
```

Drive already mounted at /content/gdrive/; to attempt to forcibly remount, call drive.mount("/content/gdrive/", force_remount=True).

```
In [ ]: %cd /content/gdrive/MyDrive
```

/content/gdrive/MyDrive

```
In [ ]: !pip install colorama
```

```
Collecting colorama  
  Downloading colorama-0.4.6-py2.py3-none-any.whl.metadata (17 kB)  
  Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)  
Installing collected packages: colorama  
Successfully installed colorama-0.4.6
```

```
In [ ]: import numpy as np  
import pandas as pd  
import seaborn as sns  
import matplotlib.pyplot as plt  
import cv2  
from sklearn.preprocessing import LabelEncoder  
from imblearn.over_sampling import RandomOverSampler  
import time  
import shutil  
import pathlib  
import itertools  
from PIL import Image  
import time  
  
from sklearn.model_selection import train_test_split  
from sklearn.metrics import confusion_matrix, classification_report  
  
import tensorflow as tf  
from tensorflow import keras  
from tensorflow.keras.models import Sequential  
from tensorflow.keras.optimizers import Adam, Adamax  
from tensorflow.keras.preprocessing.image import ImageDataGenerator  
from tensorflow.keras.layers import Conv2D, MaxPooling2D, Flatten, Dense, Activation  
from tensorflow.keras import regularizers  
from tensorflow.keras.preprocessing.image import ImageDataGenerator  
  
from tensorflow.keras import layers, models  
from tensorflow.keras.callbacks import EarlyStopping, ModelCheckpoint  
from tensorflow.keras.applications import VGG16, VGG19, ResNet50, DenseNet121, InceptionV3  
from tensorflow.keras.models import Model  
from tensorflow.keras.layers import (GlobalAveragePooling2D, Dense, Dropout, GaussianNoise, Input, MultiHeadAttention, Reshape)  
from tensorflow.keras.optimizers import Adam  
from sklearn.metrics import classification_report  
  
from tensorflow.keras.applications import MobileNetV2  
  
from tensorflow.keras.layers import (GlobalAveragePooling2D, Dense, Dropout, GaussianNoise, Input, MultiHeadAttention, Reshape)
```

```
In [ ]: from colorama import Fore
```

```
In [ ]: import os
for dirname, _, filenames in os.walk('Diabetic Retinopathy/Diagnosis of Diabetic
    for filename in filenames:
        print(os.path.join(dirname, filename))
```

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f.247bc8085d3b567920358df0dfe9c6ed.jpg
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f.74a32d06ef69e1c2db74f565435e9e59.jpg
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/40527a5e95dd_png.r
f.22299cccd3ed60ca500f2a50c7969719c.jpg
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/a93f1ea3ff4a_png.r
f.428f91e8bc4c933dab294a02695e193d.jpg
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/4dd71fc7f22b_png.r
f.f8c51fadf8174d7de0823f33acf46ff2.jpg

```
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/53704c80f0d8_png.r  
f.79694b1428f82e7e47cf131236882820.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/59e5212f7139_png.r  
f.3dadd9a144f39cd205bef1156c5fc327.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/9e5ec293267c_png.r  
f.ee2013bac324ab49b81849f4650c963c.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/00cb6555d108_png.r  
f.29cca170969c6e9918ef9b9209abef8e.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/1411c8ab7161_png.r  
f.892f5c081e1fb52861ed50975fc3a444.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/db4ed1e07aa3_png.r  
f.853862ea679a3192d36882cb0b4f4bb4.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/31cb39681f6a_png.r  
f.e654e0f889e95ac80d7c91b6a56e5c39.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/77baa08a1345_png.r  
f.25d92684076b484fb3782f879b6b51c5.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/b70cb31b9abb_png.r  
f.941b9e0915042d63976a79e9379a880a.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/a11bf2edd470_png.r  
f.046e939fb9d681c606d42bb44ae0c3c6.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/da1fb35f5df9_png.r  
f.0c0f83ffe1fd9463502dabb508b9f07f.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/37c4dfe03aba_png.r  
f.d87ab7283cf6442ba99cc356588b640e.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/af8aa32beee4_png.r  
f.5fc3ed4eff8360e1b583199f09b2236f.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/9b32e8ef0ca0_png.r  
f.6bdf6292f187be6c698c31768d8ae460.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/ee059945b08a_png.r  
f.8b2b8ea25e2c23ac47c6aa3b06b1134c.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/d41b33fc94f_png.r  
f.e5f1fbbf6f34481c1def135b363c6c68.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/82deb07a6618_png.r  
f.84dc2522a23e9d0a4a78e0e2d0ec6a8.jpg  
Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/test/DR/8b26d3cd61e8_png.r  
f.d6808e08c657f471cc5d43954a183ad4.jpg
```

```
In [ ]: base_path = "Diabetic Retinopathy/Diagnosis of Diabetic Retinopathy/train"  
categories = ["DR", "No_DR"]
```

```
In [ ]: image_paths = []  
labels = []  
  
for category in categories:  
    category_path = os.path.join(base_path, category)  
    for image_name in os.listdir(category_path):  
        image_path = os.path.join(category_path, image_name)  
        image_paths.append(image_path)  
        labels.append(category)  
  
df = pd.DataFrame({  
    "image_path": image_paths,  
    "label": labels  
})
```

```
In [ ]: df.head()
```

```
Out[ ]:
```

		image_path	label
0	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		DR
1	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		DR
2	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		DR
3	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		DR
4	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		DR

```
In [ ]:
```

```
df.tail()
```

```
Out[ ]:
```

		image_path	label
2071	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		No_DR
2072	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		No_DR
2073	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		No_DR
2074	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		No_DR
2075	Diabetic Retinopathy/Diagnosis of Diabetic Ret...		No_DR

```
In [ ]:
```

```
df.shape
```

```
Out[ ]:
```

```
(2076, 2)
```

```
In [ ]:
```

```
df.columns
```

```
Out[ ]:
```

```
Index(['image_path', 'label'], dtype='object')
```

```
In [ ]:
```

```
df.duplicated().sum()
```

```
Out[ ]:
```

```
0
```

```
In [ ]:
```

```
df.isnull().sum()
```

```
Out[ ]:
```

```
0
```

```
image_path 0
```

```
label 0
```

dtype: int64

```
In [ ]:
```

```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 2076 entries, 0 to 2075
Data columns (total 2 columns):
 #   Column      Non-Null Count  Dtype  
--- 
 0   image_path  2076 non-null    object  
 1   label        2076 non-null    object  
dtypes: object(2)
memory usage: 32.6+ KB
```

```
In [ ]: df.nunique()
```

```
Out[ ]: 0
         _____
image_path  2076
label       2
```

dtype: int64

```
In [ ]: df['label'].unique()
```

```
Out[ ]: array(['DR', 'No_DR'], dtype=object)
```

```
In [ ]: df['label'].value_counts()
```

```
Out[ ]: count
         _____
label
DR     1050
No_DR  1026
```

dtype: int64

```
In [ ]: plt.figure(figsize=(8, 6))
sns.countplot(data=df, x="label", palette="cubehelix")
plt.title("Distribution of Labels - Count Plot")
plt.xlabel("Tumor Type")
plt.ylabel("Count")

for p in plt.gca().patches:
    plt.gca().annotate(f'{int(p.get_height())}', 
                       (p.get_x() + p.get_width() / 2., p.get_height(),
                        ha='center', va='center', fontsize=11, color='black', xytextcoords='offset points')

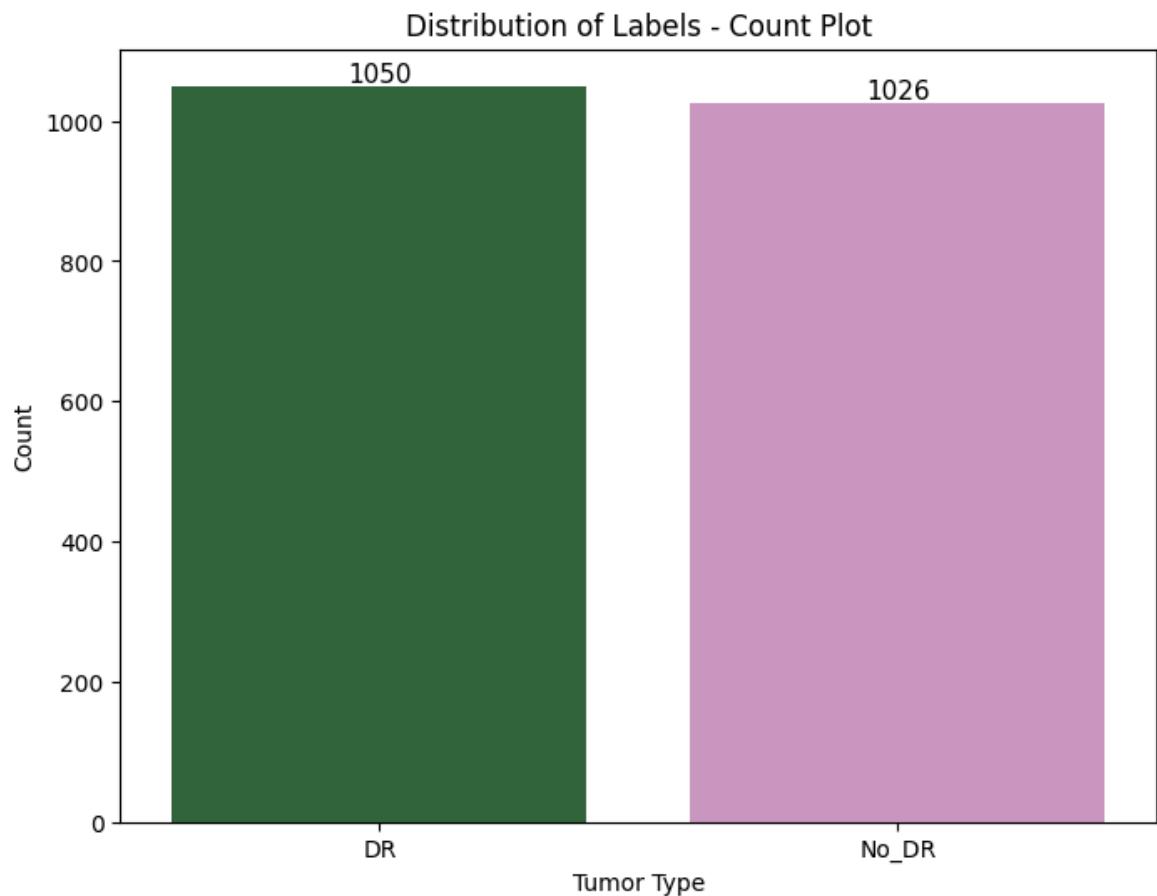
plt.show()

label_counts = df['label'].value_counts()
plt.figure(figsize=(8, 6))
plt.pie(label_counts, labels=label_counts.index, autopct='%1.1f%%', startangle=1
plt.title("Distribution of Labels - Pie Chart")
plt.show()
```

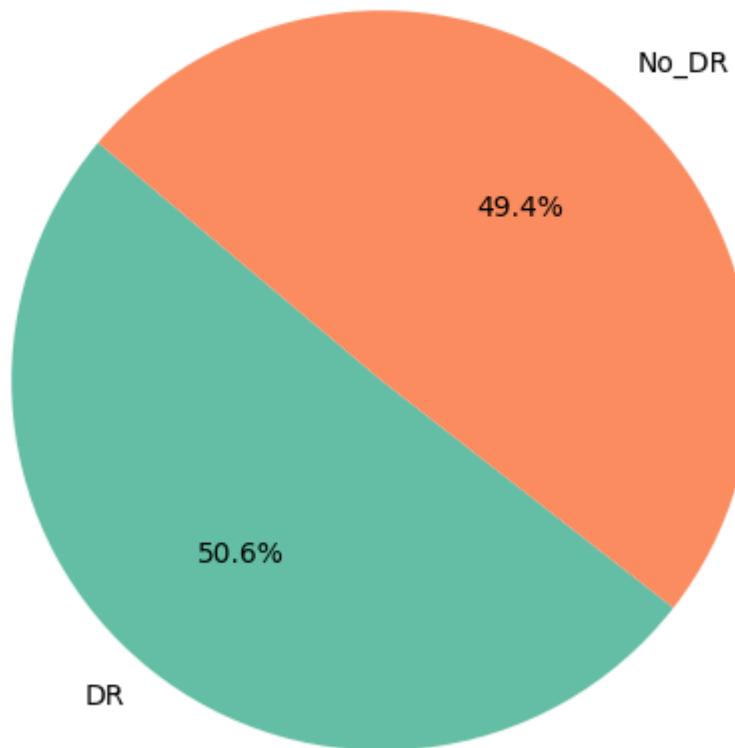
```
<ipython-input-25-1f8c3548c76a>:2: FutureWarning:
```

```
Passing `palette` without assigning `hue` is deprecated and will be removed in v
0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effe
ct.
```

```
sns.countplot(data=df, x="label", palette="cubehelix")
```



Distribution of Labels - Pie Chart



```
In [ ]: num_images = 5

plt.figure(figsize=(15, 12))

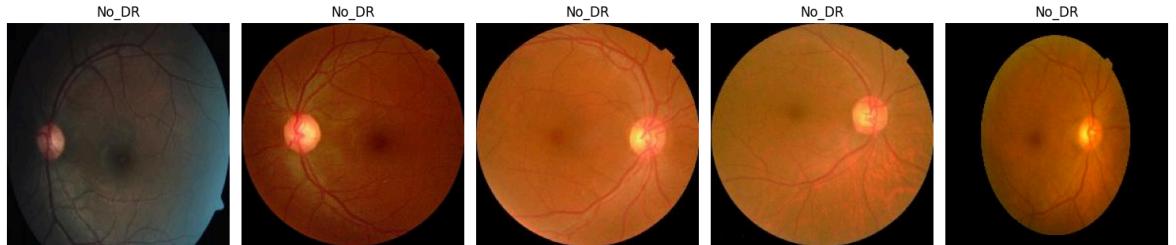
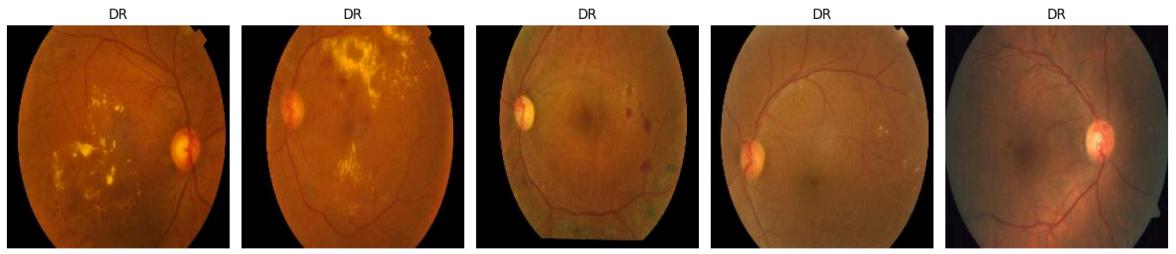
for i, category in enumerate(categories):
    category_images = df[df['label'] == category]['image_path'].iloc[:num_images]

    for j, img_path in enumerate(category_images):

        img = cv2.imread(img_path)
        img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)

        plt.subplot(len(categories), num_images, i * num_images + j + 1)
        plt.imshow(img)
        plt.axis('off')
        plt.title(category)

plt.tight_layout()
plt.show()
```



```
In [ ]: label_encoder = LabelEncoder()

df['category_encoded'] = label_encoder.fit_transform(df['label'])

In [ ]: df = df[['image_path', 'category_encoded']]

In [ ]: ros = RandomOverSampler(random_state=42)
X_resampled, y_resampled = ros.fit_resample(df[['image_path']], df['category_encoded'])

In [ ]: df_resampled = pd.DataFrame(X_resampled, columns=['image_path'])
df_resampled['category_encoded'] = y_resampled

In [ ]: print("\nClass distribution after oversampling:")
print(df_resampled['category_encoded'].value_counts())

Class distribution after oversampling:
category_encoded
0    1050
1    1050
Name: count, dtype: int64

In [ ]: df_resampled
```

Out[]:

	image_path	category_encoded
0	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	0
1	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	0
2	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	0
3	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	0
4	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	0
...
2095	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	1
2096	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	1
2097	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	1
2098	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	1
2099	Diabetic Retinopathy/Diagnosis of Diabetic Ret...	1

2100 rows × 2 columns

In []: `sns.set_style('darkgrid')`

In []: `import warnings
warnings.filterwarnings("ignore")

print ('Check.....')`

Check.....

In []: `df_resampled['category_encoded'] = df_resampled['category_encoded'].astype(str)`

In []: `train_df_new, temp_df_new = train_test_split(
 df_resampled,
 train_size=0.8,
 shuffle=True,
 random_state=42,
 stratify=df_resampled['category_encoded'])

valid_df_new, test_df_new = train_test_split(
 temp_df_new,
 test_size=0.5,
 shuffle=True,
 random_state=42,
 stratify=temp_df_new['category_encoded'])`

In []: `batch_size = 16
img_size = (224, 224)
channels = 3
img_shape = (img_size[0], img_size[1], channels)

tr_gen = ImageDataGenerator(rescale=1./255)
ts_gen = ImageDataGenerator(rescale=1./255)`

```

train_gen_new = tr_gen.flow_from_dataframe(
    train_df_new,
    x_col='image_path',
    y_col='category_encoded',
    target_size=img_size,
    class_mode='binary',
    color_mode='rgb',
    shuffle=True,
    batch_size=batch_size
)

valid_gen_new = ts_gen.flow_from_dataframe(
    valid_df_new,
    x_col='image_path',
    y_col='category_encoded',
    target_size=img_size,
    class_mode='binary',
    color_mode='rgb',
    shuffle=True,
    batch_size=batch_size
)

test_gen_new = ts_gen.flow_from_dataframe(
    test_df_new,
    x_col='image_path',
    y_col='category_encoded',
    target_size=img_size,
    class_mode='binary',
    color_mode='rgb',
    shuffle=False,
    batch_size=batch_size
)

```

Found 1680 validated image filenames belonging to 2 classes.

Found 210 validated image filenames belonging to 2 classes.

Found 210 validated image filenames belonging to 2 classes.

```
In [ ]: physical_devices = tf.config.list_physical_devices('GPU')
if physical_devices:
    print("Using GPU")
else:
    print("Using CPU")
```

Using CPU

```
In [ ]: early_stopping = EarlyStopping(monitor='val_loss', patience=5, restore_best_weig
```

VGG16 -->

```
In [ ]: def create_vgg16_model(input_shape):
    inputs = Input(shape=input_shape)

    base_model = VGG16(weights='imagenet', input_tensor=inputs, include_top=False)

    for layer in base_model.layers:
        layer.trainable = False
```

```

x = base_model.output

height, width, channels = 7, 7, 512
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='relu')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

input_shape = (224, 224, 3)

cnn_model = create_vgg16_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                  loss='binary_crossentropy',
                  metrics=['accuracy'])

```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/vgg16/vgg16_weights_tf_dim_ordering_tf_kernels_notop.h5
58889256/58889256  0s 0us/step

In []: `cnn_model.summary()`

Model: "functional"

Layer (type)	Output Shape	Param #	Co
input_layer (InputLayer)	(None, 224, 224, 3)	0	-
block1_conv1 (Conv2D)	(None, 224, 224, 64)	1,792	in
block1_conv2 (Conv2D)	(None, 224, 224, 64)	36,928	bl
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	0	bl
block2_conv1 (Conv2D)	(None, 112, 112, 128)	73,856	bl
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147,584	bl
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	0	bl
block3_conv1 (Conv2D)	(None, 56, 56, 256)	295,168	bl
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590,080	bl
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590,080	bl
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0	bl
block4_conv1 (Conv2D)	(None, 28, 28, 512)	1,180,160	bl
block4_conv2 (Conv2D)	(None, 28, 28, 512)	2,359,808	bl
block4_conv3 (Conv2D)	(None, 28, 28, 512)	2,359,808	bl
block4_pool (MaxPooling2D)	(None, 14, 14, 512)	0	bl
block5_conv1 (Conv2D)	(None, 14, 14, 512)	2,359,808	bl
block5_conv2 (Conv2D)	(None, 14, 14, 512)	2,359,808	bl
block5_conv3 (Conv2D)	(None, 14, 14, 512)	2,359,808	bl
block5_pool (MaxPooling2D)	(None, 7, 7, 512)	0	bl
reshape (Reshape)	(None, 49, 512)	0	bl
multi_head_attention (MultiHeadAttention)	(None, 49, 512)	8,401,408	re re
reshape_1 (Reshape)	(None, 7, 7, 512)	0	mu
gaussian_noise (GaussianNoise)	(None, 7, 7, 512)	0	re
global_average_pooling2d (GlobalAveragePooling2D)	(None, 512)	0	ga
dense (Dense)	(None, 512)	262,656	gl

gaussian_noise_1 (<code>GaussianNoise</code>)	(<code>None</code> , 512)	0	de
dropout_1 (<code>Dropout</code>)	(<code>None</code> , 512)	0	ga
dense_1 (<code>Dense</code>)	(<code>None</code> , 1)	513	dr

```
Total params: 23,379,265 (89.18 MB)
Trainable params: 8,664,577 (33.05 MB)
Non-trainable params: 14,714,688 (56.13 MB)
```

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

```
Epoch 1/5
105/105 ━━━━━━━━━━ 343s 3s/step - accuracy: 0.7593 - loss: 0.4902 - val
_accuracy: 0.8952 - val_loss: 0.2159
Epoch 2/5
105/105 ━━━━━━━━━━ 308s 3s/step - accuracy: 0.9130 - loss: 0.2331 - val
_accuracy: 0.9190 - val_loss: 0.1926
Epoch 3/5
105/105 ━━━━━━━━━━ 306s 3s/step - accuracy: 0.9149 - loss: 0.2154 - val
_accuracy: 0.9286 - val_loss: 0.1844
Epoch 4/5
105/105 ━━━━━━━━━━ 307s 3s/step - accuracy: 0.9362 - loss: 0.1946 - val
_accuracy: 0.8952 - val_loss: 0.2159
Epoch 5/5
105/105 ━━━━━━━━━━ 306s 3s/step - accuracy: 0.9400 - loss: 0.1855 - val
_accuracy: 0.9143 - val_loss: 0.1876
```

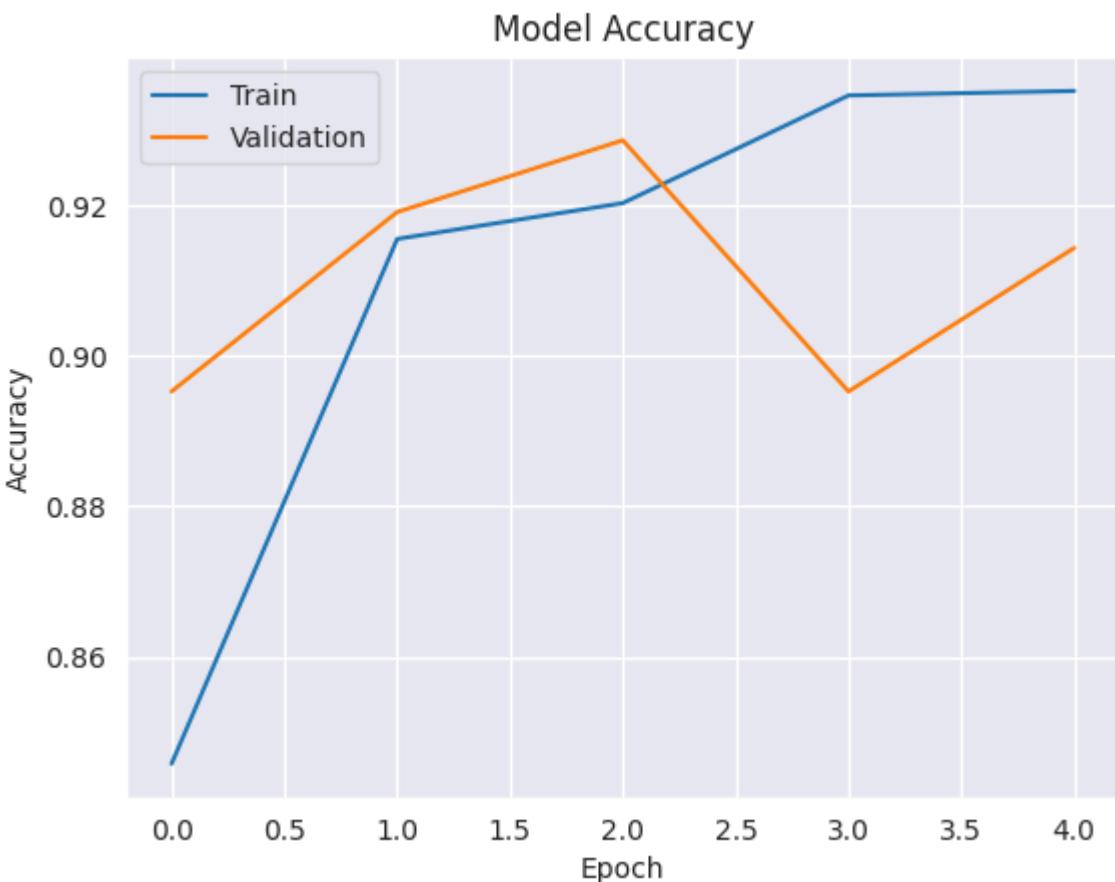
```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for VGG16 => {inference_time:.4f} seconds")
```

```
Inference time for VGG16 => 1622.6486 seconds
```

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
```

```
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



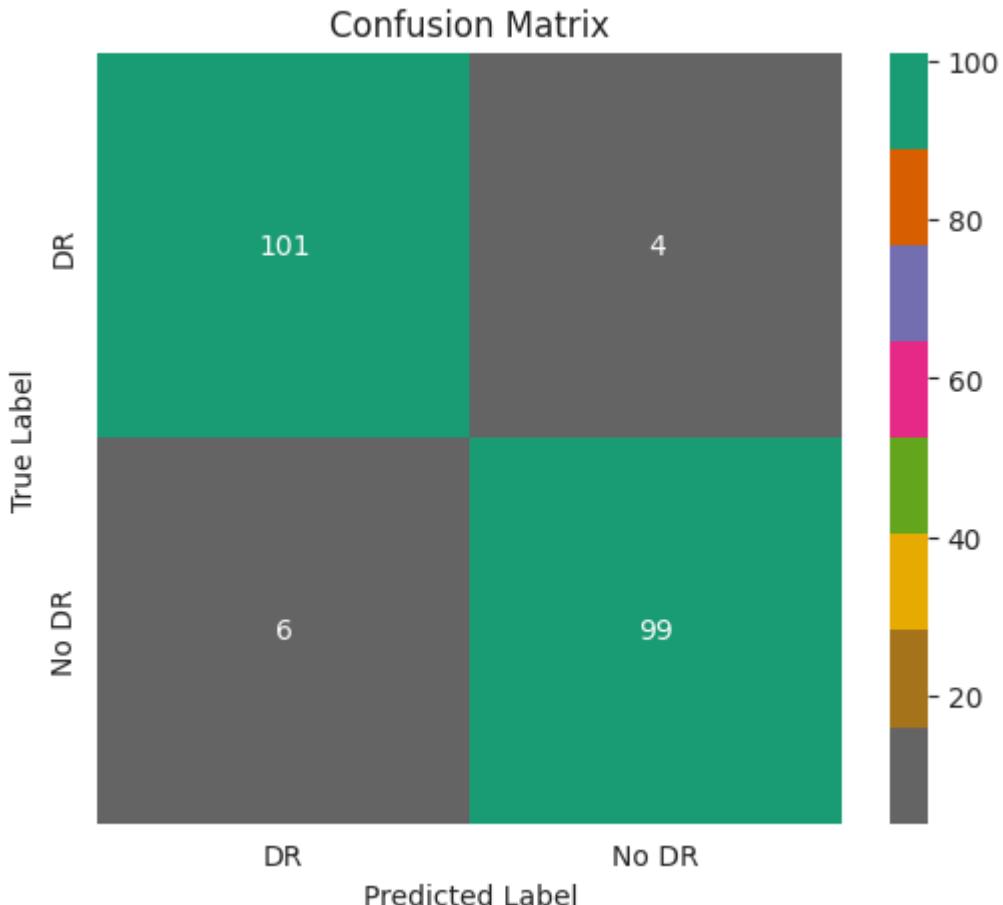
```
In [ ]: test_labels = test_gen_new.classes
predictions = cnn_model.predict(test_gen_new)
```

```
predicted_labels = (predictions > 0.5).astype(int).flatten()  
14/14 ━━━━━━━━ 39s 3s/step
```

```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(  
print(Fore.BLUE + "Report for VGG16 Model => ")  
print(report))
```

```
Report for VGG16 Model =>  
precision recall f1-score support  
  
0 0.94 0.96 0.95 105  
1 0.96 0.94 0.95 105  
  
accuracy 0.95 0.95 0.95 210  
macro avg 0.95 0.95 0.95 210  
weighted avg 0.95 0.95 0.95 210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)  
  
plt.figure(figsize=(6, 5))  
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='Dark2_r', xticklabels=['DR',  
plt.xlabel('Predicted Label')  
plt.ylabel('True Label')  
plt.title('Confusion Matrix')  
plt.show()
```



MobileNet -->

```
In [ ]: def create_lightweight_model(input_shape):
    inputs = Input(shape=input_shape)
    base_model = MobileNetV2(weights='imagenet', input_tensor=inputs, include_top=False)
    for layer in base_model.layers:
        layer.trainable = False
    x = base_model.output
    height, width, channels = x.shape[1], x.shape[2], x.shape[3]
    x = Reshape((height * width, channels))(x)
    attention_output = MultiHeadAttention(num_heads=4, key_dim=channels)(x, x)
    attention_output = Reshape((height, width, channels))(attention_output)
    x = GaussianNoise(0.2)(attention_output)
    x = GlobalAveragePooling2D()(x)
    x = Dense(256, activation='relu')(x)
    x = GaussianNoise(0.2)(x)
    x = Dropout(0.3)(x)
    outputs = Dense(1, activation='sigmoid')(x)
    model = Model(inputs=inputs, outputs=outputs)
    return model

input_shape = (224, 224, 3)
cnn_model = create_lightweight_model(input_shape)
cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                   loss='binary_crossentropy',
                   metrics=['accuracy'])
```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/mobilenet_v2/mobilenet_v2_weights_tf_dim_ordering_tf_kernels_1.0_224_no_top.h5
9406464/9406464 ━━━━━━━━ 0s 0us/step

```
In [ ]: cnn_model.summary()
```

Model: "functional_1"

Layer (type)	Output Shape	Param #	Co
input_layer_1 (InputLayer)	(None, 224, 224, 3)	0	-
Conv1 (Conv2D)	(None, 112, 112, 32)	864	in
bn_Conv1 (BatchNormalization)	(None, 112, 112, 32)	128	Co
Conv1_relu (ReLU)	(None, 112, 112, 32)	0	bn
expanded_conv_depthwise (DepthwiseConv2D)	(None, 112, 112, 32)	288	Co
expanded_conv_depthwise_... (BatchNormalization)	(None, 112, 112, 32)	128	ex
expanded_conv_depthwise_... (ReLU)	(None, 112, 112, 32)	0	ex
expanded_conv_project (Conv2D)	(None, 112, 112, 16)	512	ex
expanded_conv_project_BN (BatchNormalization)	(None, 112, 112, 16)	64	ex
block_1_expand (Conv2D)	(None, 112, 112, 96)	1,536	ex
block_1_expand_BN (BatchNormalization)	(None, 112, 112, 96)	384	bl
block_1_expand_relu (ReLU)	(None, 112, 112, 96)	0	bl
block_1_pad (ZeroPadding2D)	(None, 113, 113, 96)	0	bl
block_1_depthwise (DepthwiseConv2D)	(None, 56, 56, 96)	864	bl
block_1_depthwise_BN (BatchNormalization)	(None, 56, 56, 96)	384	bl
block_1_depthwise_relu (ReLU)	(None, 56, 56, 96)	0	bl
block_1_project (Conv2D)	(None, 56, 56, 24)	2,304	bl
block_1_project_BN (BatchNormalization)	(None, 56, 56, 24)	96	bl
block_2_expand (Conv2D)	(None, 56, 56, 144)	3,456	bl
block_2_expand_BN (BatchNormalization)	(None, 56, 56, 144)	576	bl
block_2_expand_relu (ReLU)	(None, 56, 56, 144)	0	bl

block_2_depthwise (DepthwiseConv2D)	(None, 56, 56, 144)	1,296	bl
block_2_depthwise_BN (BatchNormalization)	(None, 56, 56, 144)	576	bl
block_2_depthwise_relu (ReLU)	(None, 56, 56, 144)	0	bl
block_2_project (Conv2D)	(None, 56, 56, 24)	3,456	bl
block_2_project_BN (BatchNormalization)	(None, 56, 56, 24)	96	bl
block_2_add (Add)	(None, 56, 56, 24)	0	bl bl
block_3_expand (Conv2D)	(None, 56, 56, 144)	3,456	bl
block_3_expand_BN (BatchNormalization)	(None, 56, 56, 144)	576	bl
block_3_expand_relu (ReLU)	(None, 56, 56, 144)	0	bl
block_3_pad (ZeroPadding2D)	(None, 57, 57, 144)	0	bl
block_3_depthwise (DepthwiseConv2D)	(None, 28, 28, 144)	1,296	bl
block_3_depthwise_BN (BatchNormalization)	(None, 28, 28, 144)	576	bl
block_3_depthwise_relu (ReLU)	(None, 28, 28, 144)	0	bl
block_3_project (Conv2D)	(None, 28, 28, 32)	4,608	bl
block_3_project_BN (BatchNormalization)	(None, 28, 28, 32)	128	bl
block_4_expand (Conv2D)	(None, 28, 28, 192)	6,144	bl
block_4_expand_BN (BatchNormalization)	(None, 28, 28, 192)	768	bl
block_4_expand_relu (ReLU)	(None, 28, 28, 192)	0	bl
block_4_depthwise (DepthwiseConv2D)	(None, 28, 28, 192)	1,728	bl
block_4_depthwise_BN (BatchNormalization)	(None, 28, 28, 192)	768	bl
block_4_depthwise_relu (ReLU)	(None, 28, 28, 192)	0	bl

block_4_project (Conv2D)	(None, 28, 28, 32)	6,144	b1
block_4_project_BN (BatchNormalization)	(None, 28, 28, 32)	128	b1
block_4_add (Add)	(None, 28, 28, 32)	0	b1 b1
block_5_expand (Conv2D)	(None, 28, 28, 192)	6,144	b1
block_5_expand_BN (BatchNormalization)	(None, 28, 28, 192)	768	b1
block_5_expand_relu (ReLU)	(None, 28, 28, 192)	0	b1
block_5_depthwise (DepthwiseConv2D)	(None, 28, 28, 192)	1,728	b1
block_5_depthwise_BN (BatchNormalization)	(None, 28, 28, 192)	768	b1
block_5_depthwise_relu (ReLU)	(None, 28, 28, 192)	0	b1
block_5_project (Conv2D)	(None, 28, 28, 32)	6,144	b1
block_5_project_BN (BatchNormalization)	(None, 28, 28, 32)	128	b1
block_5_add (Add)	(None, 28, 28, 32)	0	b1 b1
block_6_expand (Conv2D)	(None, 28, 28, 192)	6,144	b1
block_6_expand_BN (BatchNormalization)	(None, 28, 28, 192)	768	b1
block_6_expand_relu (ReLU)	(None, 28, 28, 192)	0	b1
block_6_pad (ZeroPadding2D)	(None, 29, 29, 192)	0	b1
block_6_depthwise (DepthwiseConv2D)	(None, 14, 14, 192)	1,728	b1
block_6_depthwise_BN (BatchNormalization)	(None, 14, 14, 192)	768	b1
block_6_depthwise_relu (ReLU)	(None, 14, 14, 192)	0	b1
block_6_project (Conv2D)	(None, 14, 14, 64)	12,288	b1
block_6_project_BN (BatchNormalization)	(None, 14, 14, 64)	256	b1
block_7_expand (Conv2D)	(None, 14, 14, 384)	24,576	b1

block_7_expand_BN (BatchNormalization)	(None, 14, 14, 384)	1,536	bl
block_7_expand_relu (ReLU)	(None, 14, 14, 384)	0	bl
block_7_depthwise (DepthwiseConv2D)	(None, 14, 14, 384)	3,456	bl
block_7_depthwise_BN (BatchNormalization)	(None, 14, 14, 384)	1,536	bl
block_7_depthwise_relu (ReLU)	(None, 14, 14, 384)	0	bl
block_7_project (Conv2D)	(None, 14, 14, 64)	24,576	bl
block_7_project_BN (BatchNormalization)	(None, 14, 14, 64)	256	bl
block_7_add (Add)	(None, 14, 14, 64)	0	bl bl
block_8_expand (Conv2D)	(None, 14, 14, 384)	24,576	bl
block_8_expand_BN (BatchNormalization)	(None, 14, 14, 384)	1,536	bl
block_8_expand_relu (ReLU)	(None, 14, 14, 384)	0	bl
block_8_depthwise (DepthwiseConv2D)	(None, 14, 14, 384)	3,456	bl
block_8_depthwise_BN (BatchNormalization)	(None, 14, 14, 384)	1,536	bl
block_8_depthwise_relu (ReLU)	(None, 14, 14, 384)	0	bl
block_8_project (Conv2D)	(None, 14, 14, 64)	24,576	bl
block_8_project_BN (BatchNormalization)	(None, 14, 14, 64)	256	bl
block_8_add (Add)	(None, 14, 14, 64)	0	bl bl
block_9_expand (Conv2D)	(None, 14, 14, 384)	24,576	bl
block_9_expand_BN (BatchNormalization)	(None, 14, 14, 384)	1,536	bl
block_9_expand_relu (ReLU)	(None, 14, 14, 384)	0	bl
block_9_depthwise (DepthwiseConv2D)	(None, 14, 14, 384)	3,456	bl
block_9_depthwise_BN	(None, 14, 14, 384)	1,536	bl

(BatchNormalization)				
block_9_depthwise_relu (ReLU)	(None, 14, 14, 384)	0	bl	
block_9_project (Conv2D)	(None, 14, 14, 64)	24,576	bl	
block_9_project_BN (BatchNormalization)	(None, 14, 14, 64)	256	bl	
block_9_add (Add)	(None, 14, 14, 64)	0	bl	bl
block_10_expand (Conv2D)	(None, 14, 14, 384)	24,576	bl	
block_10_expand_BN (BatchNormalization)	(None, 14, 14, 384)	1,536	bl	
block_10_expand_relu (ReLU)	(None, 14, 14, 384)	0	bl	
block_10_depthwise (DepthwiseConv2D)	(None, 14, 14, 384)	3,456	bl	
block_10_depthwise_BN (BatchNormalization)	(None, 14, 14, 384)	1,536	bl	
block_10_depthwise_relu (ReLU)	(None, 14, 14, 384)	0	bl	
block_10_project (Conv2D)	(None, 14, 14, 96)	36,864	bl	
block_10_project_BN (BatchNormalization)	(None, 14, 14, 96)	384	bl	
block_11_expand (Conv2D)	(None, 14, 14, 576)	55,296	bl	
block_11_expand_BN (BatchNormalization)	(None, 14, 14, 576)	2,304	bl	
block_11_expand_relu (ReLU)	(None, 14, 14, 576)	0	bl	
block_11_depthwise (DepthwiseConv2D)	(None, 14, 14, 576)	5,184	bl	
block_11_depthwise_BN (BatchNormalization)	(None, 14, 14, 576)	2,304	bl	
block_11_depthwise_relu (ReLU)	(None, 14, 14, 576)	0	bl	
block_11_project (Conv2D)	(None, 14, 14, 96)	55,296	bl	
block_11_project_BN (BatchNormalization)	(None, 14, 14, 96)	384	bl	
block_11_add (Add)	(None, 14, 14, 96)	0	bl	bl

block_12_expand (Conv2D)	(None, 14, 14, 576)	55,296	bl
block_12_expand_BN (BatchNormalization)	(None, 14, 14, 576)	2,304	bl
block_12_expand_relu (ReLU)	(None, 14, 14, 576)	0	bl
block_12_depthwise (DepthwiseConv2D)	(None, 14, 14, 576)	5,184	bl
block_12_depthwise_BN (BatchNormalization)	(None, 14, 14, 576)	2,304	bl
block_12_depthwise_relu (ReLU)	(None, 14, 14, 576)	0	bl
block_12_project (Conv2D)	(None, 14, 14, 96)	55,296	bl
block_12_project_BN (BatchNormalization)	(None, 14, 14, 96)	384	bl
block_12_add (Add)	(None, 14, 14, 96)	0	bl bl
block_13_expand (Conv2D)	(None, 14, 14, 576)	55,296	bl
block_13_expand_BN (BatchNormalization)	(None, 14, 14, 576)	2,304	bl
block_13_expand_relu (ReLU)	(None, 14, 14, 576)	0	bl
block_13_pad (ZeroPadding2D)	(None, 15, 15, 576)	0	bl
block_13_depthwise (DepthwiseConv2D)	(None, 7, 7, 576)	5,184	bl
block_13_depthwise_BN (BatchNormalization)	(None, 7, 7, 576)	2,304	bl
block_13_depthwise_relu (ReLU)	(None, 7, 7, 576)	0	bl
block_13_project (Conv2D)	(None, 7, 7, 160)	92,160	bl
block_13_project_BN (BatchNormalization)	(None, 7, 7, 160)	640	bl
block_14_expand (Conv2D)	(None, 7, 7, 960)	153,600	bl
block_14_expand_BN (BatchNormalization)	(None, 7, 7, 960)	3,840	bl
block_14_expand_relu (ReLU)	(None, 7, 7, 960)	0	bl
block_14_depthwise (DepthwiseConv2D)	(None, 7, 7, 960)	8,640	bl

block_14_depthwise_BN (BatchNormalization)	(None, 7, 7, 960)	3,840	bl
block_14_depthwise_relu (ReLU)	(None, 7, 7, 960)	0	bl
block_14_project (Conv2D)	(None, 7, 7, 160)	153,600	bl
block_14_project_BN (BatchNormalization)	(None, 7, 7, 160)	640	bl
block_14_add (Add)	(None, 7, 7, 160)	0	bl bl
block_15_expand (Conv2D)	(None, 7, 7, 960)	153,600	bl
block_15_expand_BN (BatchNormalization)	(None, 7, 7, 960)	3,840	bl
block_15_expand_relu (ReLU)	(None, 7, 7, 960)	0	bl
block_15_depthwise (DepthwiseConv2D)	(None, 7, 7, 960)	8,640	bl
block_15_depthwise_BN (BatchNormalization)	(None, 7, 7, 960)	3,840	bl
block_15_depthwise_relu (ReLU)	(None, 7, 7, 960)	0	bl
block_15_project (Conv2D)	(None, 7, 7, 160)	153,600	bl
block_15_project_BN (BatchNormalization)	(None, 7, 7, 160)	640	bl
block_15_add (Add)	(None, 7, 7, 160)	0	bl bl
block_16_expand (Conv2D)	(None, 7, 7, 960)	153,600	bl
block_16_expand_BN (BatchNormalization)	(None, 7, 7, 960)	3,840	bl
block_16_expand_relu (ReLU)	(None, 7, 7, 960)	0	bl
block_16_depthwise (DepthwiseConv2D)	(None, 7, 7, 960)	8,640	bl
block_16_depthwise_BN (BatchNormalization)	(None, 7, 7, 960)	3,840	bl
block_16_depthwise_relu (ReLU)	(None, 7, 7, 960)	0	bl
block_16_project (Conv2D)	(None, 7, 7, 320)	307,200	bl
block_16_project_BN	(None, 7, 7, 320)	1,280	bl

(BatchNormalization)			
Conv_1 (Conv2D)	(None, 7, 7, 1280)	409,600	bl
Conv_1_bn (BatchNormalization)	(None, 7, 7, 1280)	5,120	Co
out_relu (ReLU)	(None, 7, 7, 1280)	0	Co
reshape_2 (Reshape)	(None, 49, 1280)	0	ou
multi_head_attention_1 (MultiHeadAttention)	(None, 49, 1280)	26,231,040	re re
reshape_3 (Reshape)	(None, 7, 7, 1280)	0	mu
gaussian_noise_2 (GaussianNoise)	(None, 7, 7, 1280)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 1280)	0	ga
dense_2 (Dense)	(None, 256)	327,936	gl
gaussian_noise_3 (GaussianNoise)	(None, 256)	0	de
dropout_3 (Dropout)	(None, 256)	0	ga
dense_3 (Dense)	(None, 1)	257	dr

Total params: 28,817,217 (109.93 MB)

Trainable params: 26,559,233 (101.32 MB)

Non-trainable params: 2,257,984 (8.61 MB)

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

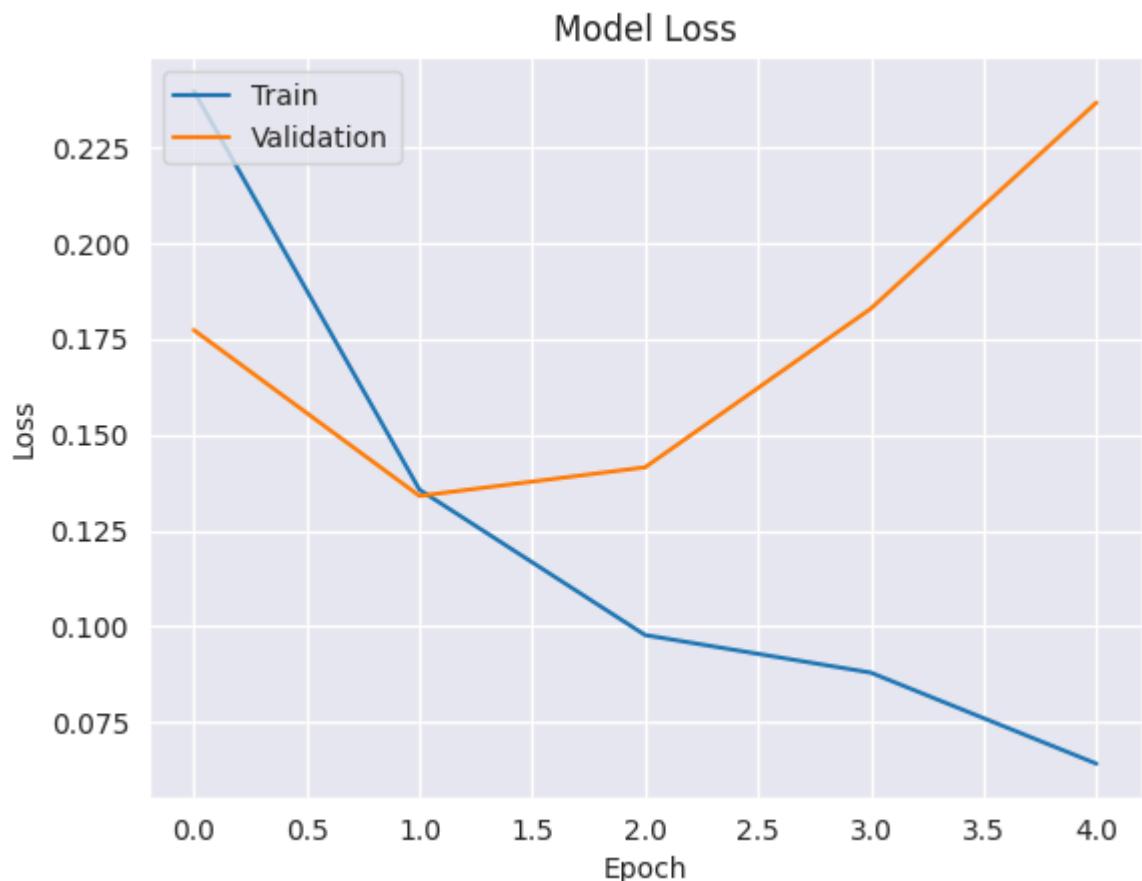
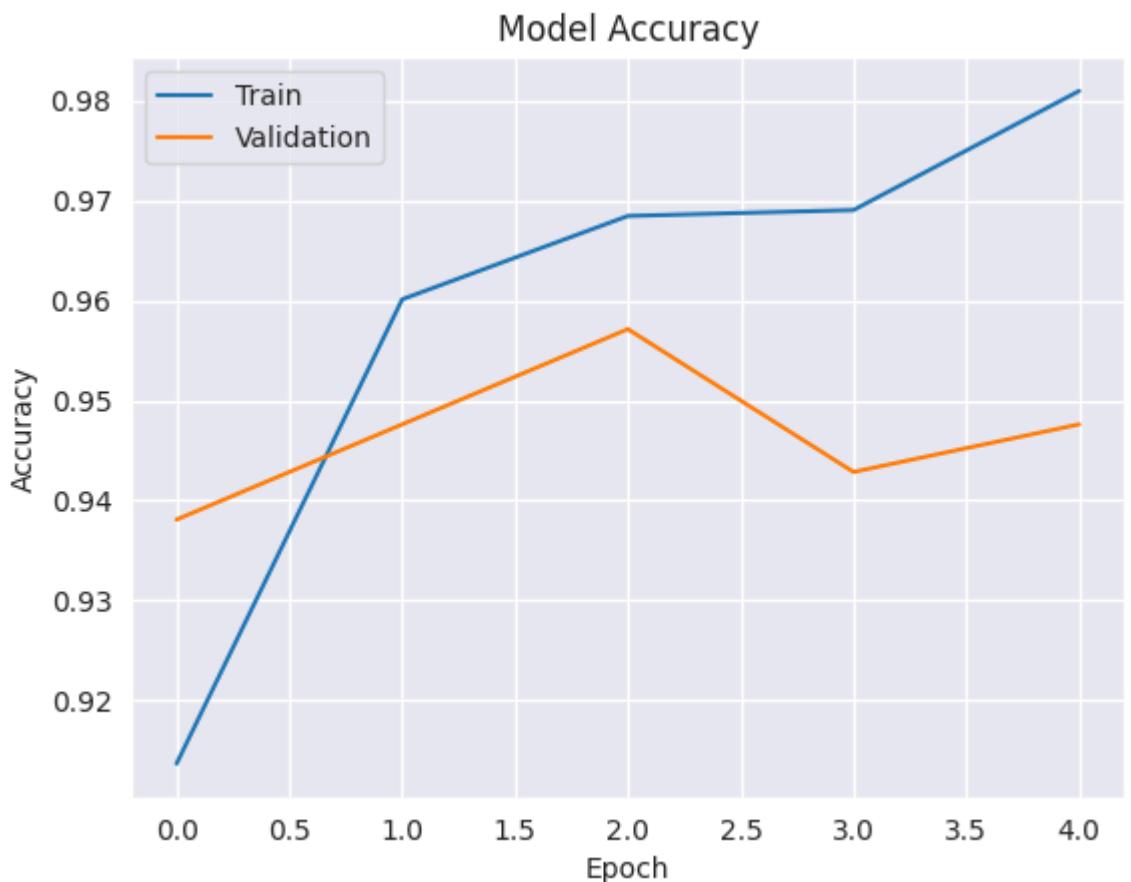
```
Epoch 1/5
105/105 133s 1s/step - accuracy: 0.8555 - loss: 0.3253 - val
_accuracy: 0.9381 - val_loss: 0.1773
Epoch 2/5
105/105 127s 1s/step - accuracy: 0.9663 - loss: 0.1138 - val
_accuracy: 0.9476 - val_loss: 0.1341
Epoch 3/5
105/105 127s 1s/step - accuracy: 0.9698 - loss: 0.1005 - val
_accuracy: 0.9571 - val_loss: 0.1415
Epoch 4/5
105/105 126s 1s/step - accuracy: 0.9752 - loss: 0.0735 - val
_accuracy: 0.9429 - val_loss: 0.1829
Epoch 5/5
105/105 127s 1s/step - accuracy: 0.9773 - loss: 0.0679 - val
_accuracy: 0.9476 - val_loss: 0.2366
```

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for MobileNet => {inference_time:.4f} seconds")
```

```
Inference time for MobileNet => 640.6496 seconds
```

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



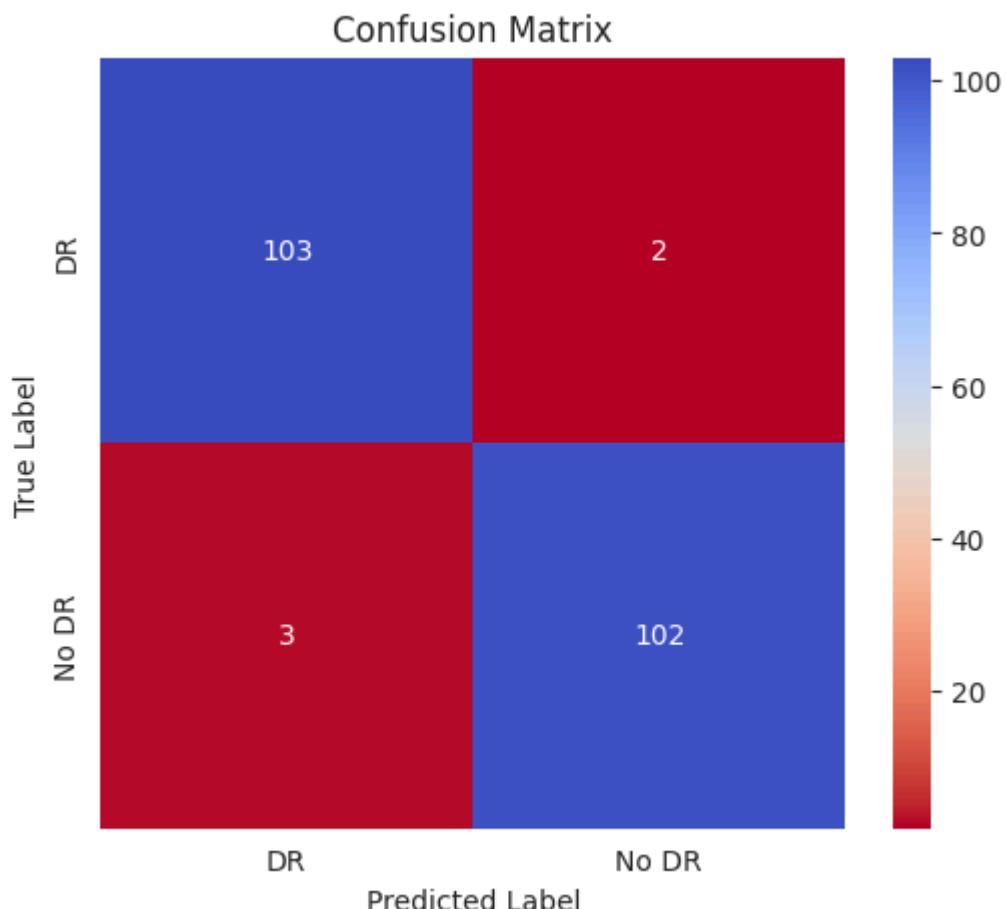
```
In [ ]: test_labels = test_gen_new.classes
predictions = cnn_model.predict(test_gen_new)
predicted_labels = (predictions > 0.5).astype(int).flatten()
```

14/14 9s 535ms/step

```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(Fore.BLUE + "Report for MobileNet Model => ")  
print(report)
```

```
Report for MobileNet Model =>  
precision recall f1-score support  
  
0 0.97 0.98 0.98 105  
1 0.98 0.97 0.98 105  
  
accuracy 0.98 0.98 0.98 210  
macro avg 0.98 0.98 0.98 210  
weighted avg 0.98 0.98 0.98 210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)  
  
plt.figure(figsize=(6, 5))  
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='coolwarm_r', xticklabels=['DR', 'No DR'], yticklabels=['DR', 'No DR'])  
plt.xlabel('Predicted Label')  
plt.ylabel('True Label')  
plt.title('Confusion Matrix')  
plt.show()
```



VGG19 -->

```
In [ ]: def create_vgg19_model(input_shape):  
    inputs = Input(shape=input_shape)
```

```

base_model = VGG19(weights='imagenet', input_tensor=inputs, include_top=False)

for layer in base_model.layers:
    layer.trainable = False

x = base_model.output

height, width, channels = 7, 7, 512
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='relu')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

```

input_shape = (224, 224, 3)

cnn_model = create_vgg19_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
 loss='binary_crossentropy',
 metrics=['accuracy'])

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/vgg19/vgg19_weights_tf_dim_ordering_tf_kernels_notop.h5
 80134624 ━━━━━━━━━━ 0s 0us/step

In []: `cnn_model.summary()`

Model: "functional_2"

Layer (type)	Output Shape	Param #	Co
input_layer_2 (InputLayer)	(None, 224, 224, 3)	0	-
block1_conv1 (Conv2D)	(None, 224, 224, 64)	1,792	in
block1_conv2 (Conv2D)	(None, 224, 224, 64)	36,928	bl
block1_pool (MaxPooling2D)	(None, 112, 112, 64)	0	bl
block2_conv1 (Conv2D)	(None, 112, 112, 128)	73,856	bl
block2_conv2 (Conv2D)	(None, 112, 112, 128)	147,584	bl
block2_pool (MaxPooling2D)	(None, 56, 56, 128)	0	bl
block3_conv1 (Conv2D)	(None, 56, 56, 256)	295,168	bl
block3_conv2 (Conv2D)	(None, 56, 56, 256)	590,080	bl
block3_conv3 (Conv2D)	(None, 56, 56, 256)	590,080	bl
block3_conv4 (Conv2D)	(None, 56, 56, 256)	590,080	bl
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0	bl
block4_conv1 (Conv2D)	(None, 28, 28, 512)	1,180,160	bl
block4_conv2 (Conv2D)	(None, 28, 28, 512)	2,359,808	bl
block4_conv3 (Conv2D)	(None, 28, 28, 512)	2,359,808	bl
block4_conv4 (Conv2D)	(None, 28, 28, 512)	2,359,808	bl
block4_pool (MaxPooling2D)	(None, 14, 14, 512)	0	bl
block5_conv1 (Conv2D)	(None, 14, 14, 512)	2,359,808	bl
block5_conv2 (Conv2D)	(None, 14, 14, 512)	2,359,808	bl
block5_conv3 (Conv2D)	(None, 14, 14, 512)	2,359,808	bl
block5_conv4 (Conv2D)	(None, 14, 14, 512)	2,359,808	bl
block5_pool (MaxPooling2D)	(None, 7, 7, 512)	0	bl
reshape_4 (Reshape)	(None, 49, 512)	0	bl
multi_head_attention_2 (MultiHeadAttention)	(None, 49, 512)	8,401,408	re re
reshape_5 (Reshape)	(None, 7, 7, 512)	0	mu

gaussian_noise_4 (GaussianNoise)	(None, 7, 7, 512)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 512)	0	ga
dense_4 (Dense)	(None, 512)	262,656	gl
gaussian_noise_5 (GaussianNoise)	(None, 512)	0	de
dropout_5 (Dropout)	(None, 512)	0	ga
dense_5 (Dense)	(None, 1)	513	dr

Total params: 28,688,961 (109.44 MB)

Trainable params: 8,664,577 (33.05 MB)

Non-trainable params: 20,024,384 (76.39 MB)

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

```
Epoch 1/5
105/105 ━━━━━━━━━━ 376s 4s/step - accuracy: 0.7199 - loss: 0.5232 - val_accuracy: 0.9048 - val_loss: 0.2078
Epoch 2/5
105/105 ━━━━━━━━━━ 373s 4s/step - accuracy: 0.9276 - loss: 0.2119 - val_accuracy: 0.9476 - val_loss: 0.1914
Epoch 3/5
105/105 ━━━━━━━━━━ 374s 4s/step - accuracy: 0.9186 - loss: 0.2335 - val_accuracy: 0.9429 - val_loss: 0.1814
Epoch 4/5
105/105 ━━━━━━━━━━ 373s 4s/step - accuracy: 0.9335 - loss: 0.2025 - val_accuracy: 0.9143 - val_loss: 0.1831
Epoch 5/5
105/105 ━━━━━━━━━━ 383s 4s/step - accuracy: 0.9325 - loss: 0.1783 - val_accuracy: 0.9381 - val_loss: 0.1631
```

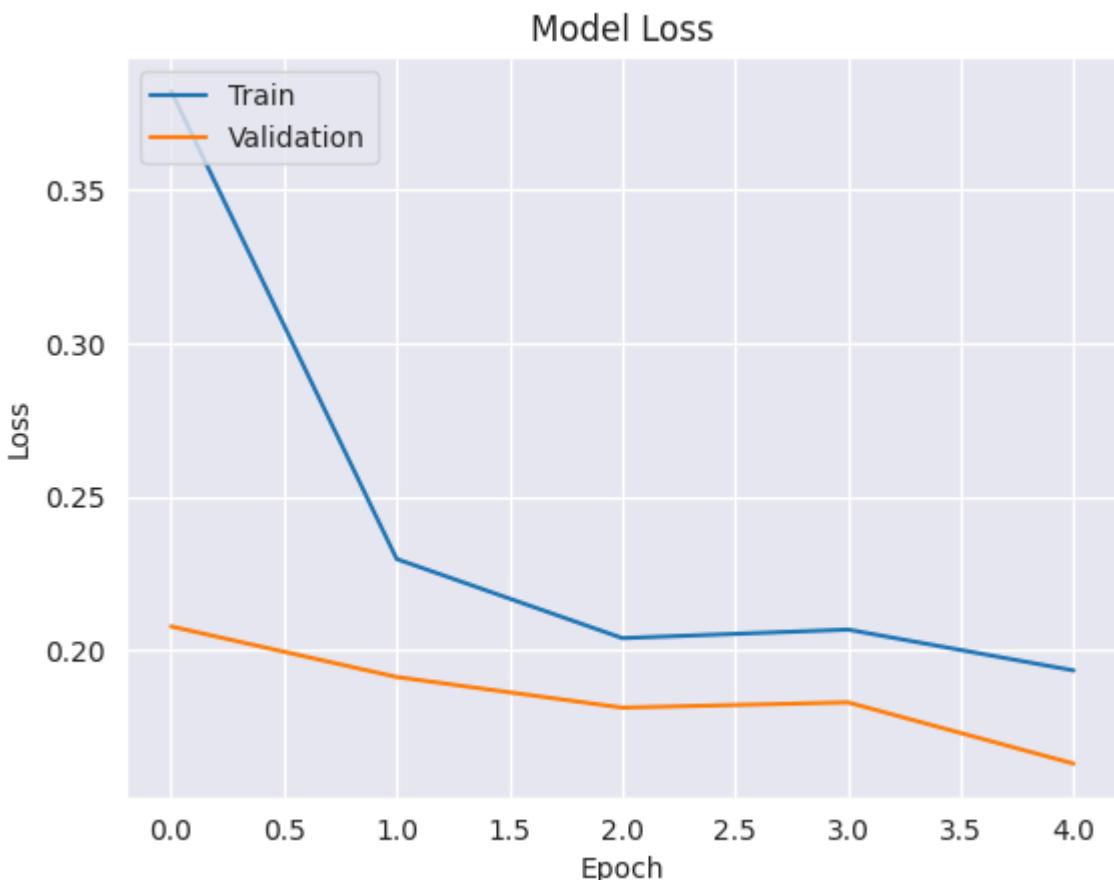
```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for VGG19 => {inference_time:.4f} seconds")
```

Inference time for VGG19 => 1879.3396 seconds

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```

```
plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```





```
In [ ]: test_labels = test_gen_new.classes
         predictions = cnn_model.predict(test_gen_new)
         predicted_labels = (predictions > 0.5).astype(int).flatten()
```

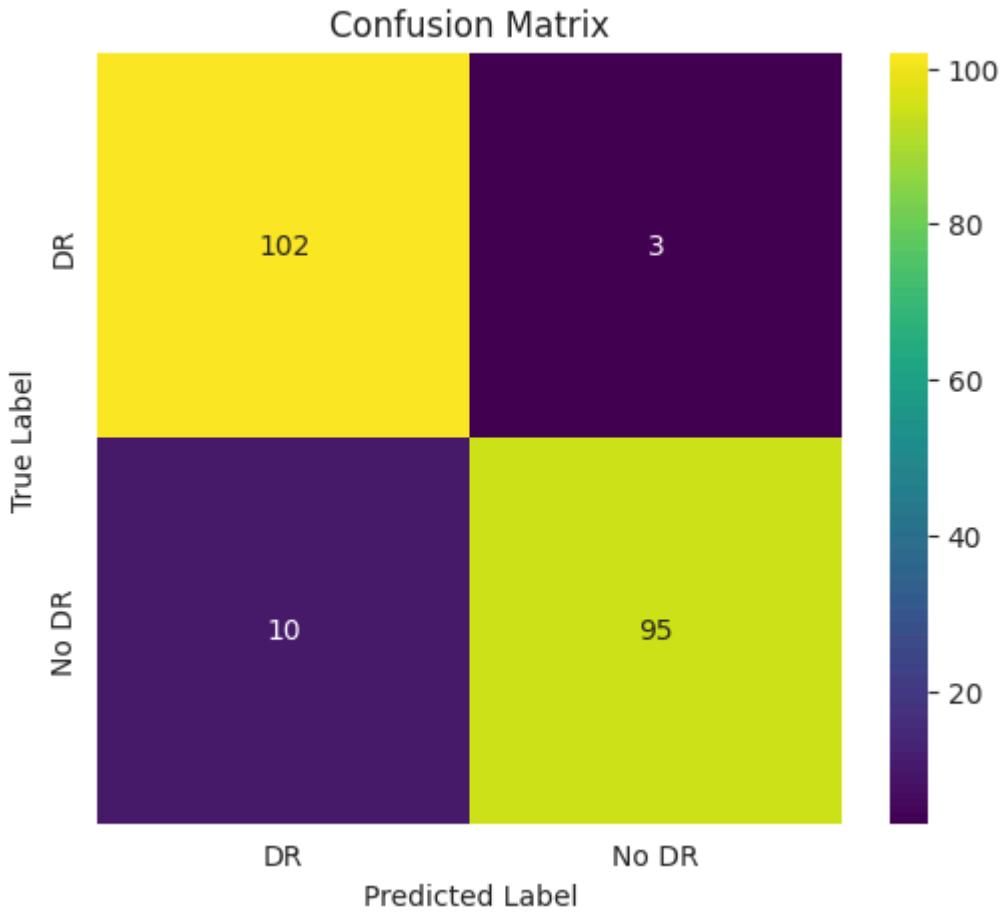
14/14 ━━━━━━━━ 39s 3s/step

```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(
         print(Fore.BLUE + "Report for VGG19 Model => ")
         print(report))
```

	precision	recall	f1-score	support
0	0.91	0.97	0.94	105
1	0.97	0.90	0.94	105
accuracy			0.94	210
macro avg	0.94	0.94	0.94	210
weighted avg	0.94	0.94	0.94	210

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)

plt.figure(figsize=(6, 5))
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='viridis', xticklabels=['DR',
         plt.xlabel('Predicted Label')
         plt.ylabel('True Label')
         plt.title('Confusion Matrix')
         plt.show())
```



Xception -->

```
In [ ]: def create_xception_model(input_shape):
    inputs = Input(shape=input_shape)

    base_model = Xception(weights='imagenet', input_tensor=inputs, include_top=False)

    for layer in base_model.layers:
        layer.trainable = False

    x = base_model.output

    height, width, channels = 7, 7, 2048
    x = Reshape((height * width, channels))(x)

    attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
    attention_output = Reshape((height, width, channels))(attention_output)

    x = GaussianNoise(0.25)(attention_output)

    x = GlobalAveragePooling2D()(x)

    x = Dense(512, activation='relu')(x)
    x = GaussianNoise(0.25)(x)
    x = Dropout(0.25)(x)

    outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)
```

```
    return model

input_shape = (224, 224, 3)

cnn_model = create_xception_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                   loss='binary_crossentropy',
                   metrics=['accuracy'])
```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/xception/xception_weights_tf_dim_ordering_tf_kernels_notop.h5
83683744/83683744 **1s 0us/step**

In []: `cnn_model.summary()`

Model: "functional_3"

Layer (type)	Output Shape	Param #	Co
input_layer_3 (InputLayer)	(None, 224, 224, 3)	0	-
block1_conv1 (Conv2D)	(None, 111, 111, 32)	864	in
block1_conv1_bn (BatchNormalization)	(None, 111, 111, 32)	128	bl
block1_conv1_act (Activation)	(None, 111, 111, 32)	0	bl
block1_conv2 (Conv2D)	(None, 109, 109, 64)	18,432	bl
block1_conv2_bn (BatchNormalization)	(None, 109, 109, 64)	256	bl
block1_conv2_act (Activation)	(None, 109, 109, 64)	0	bl
block2_sepconv1 (SeparableConv2D)	(None, 109, 109, 128)	8,768	bl
block2_sepconv1_bn (BatchNormalization)	(None, 109, 109, 128)	512	bl
block2_sepconv2_act (Activation)	(None, 109, 109, 128)	0	bl
block2_sepconv2 (SeparableConv2D)	(None, 109, 109, 128)	17,536	bl
block2_sepconv2_bn (BatchNormalization)	(None, 109, 109, 128)	512	bl
conv2d (Conv2D)	(None, 55, 55, 128)	8,192	bl
block2_pool (MaxPooling2D)	(None, 55, 55, 128)	0	bl
batch_normalization (BatchNormalization)	(None, 55, 55, 128)	512	co
add (Add)	(None, 55, 55, 128)	0	bl ba
block3_sepconv1_act (Activation)	(None, 55, 55, 128)	0	ad
block3_sepconv1 (SeparableConv2D)	(None, 55, 55, 256)	33,920	bl
block3_sepconv1_bn (BatchNormalization)	(None, 55, 55, 256)	1,024	bl
block3_sepconv2_act (Activation)	(None, 55, 55, 256)	0	bl

block3_sepconv2 (SeparableConv2D)	(None, 55, 55, 256)	67,840	b1
block3_sepconv2_bn (BatchNormalization)	(None, 55, 55, 256)	1,024	b1
conv2d_1 (Conv2D)	(None, 28, 28, 256)	32,768	ad
block3_pool (MaxPooling2D)	(None, 28, 28, 256)	0	b1
batch_normalization_1 (BatchNormalization)	(None, 28, 28, 256)	1,024	co
add_1 (Add)	(None, 28, 28, 256)	0	b1 ba
block4_sepconv1_act (Activation)	(None, 28, 28, 256)	0	ad
block4_sepconv1 (SeparableConv2D)	(None, 28, 28, 728)	188,672	b1
block4_sepconv1_bn (BatchNormalization)	(None, 28, 28, 728)	2,912	b1
block4_sepconv2_act (Activation)	(None, 28, 28, 728)	0	b1
block4_sepconv2 (SeparableConv2D)	(None, 28, 28, 728)	536,536	b1
block4_sepconv2_bn (BatchNormalization)	(None, 28, 28, 728)	2,912	b1
conv2d_2 (Conv2D)	(None, 14, 14, 728)	186,368	ad
block4_pool (MaxPooling2D)	(None, 14, 14, 728)	0	b1
batch_normalization_2 (BatchNormalization)	(None, 14, 14, 728)	2,912	co
add_2 (Add)	(None, 14, 14, 728)	0	b1 ba
block5_sepconv1_act (Activation)	(None, 14, 14, 728)	0	ad
block5_sepconv1 (SeparableConv2D)	(None, 14, 14, 728)	536,536	b1
block5_sepconv1_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	b1
block5_sepconv2_act (Activation)	(None, 14, 14, 728)	0	b1
block5_sepconv2 (SeparableConv2D)	(None, 14, 14, 728)	536,536	b1

block5_sepconv2_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block5_sepconv3_act (Activation)	(None, 14, 14, 728)	0	bl
block5_sepconv3 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block5_sepconv3_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
add_3 (Add)	(None, 14, 14, 728)	0	bl ad
block6_sepconv1_act (Activation)	(None, 14, 14, 728)	0	ad
block6_sepconv1 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block6_sepconv1_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block6_sepconv2_act (Activation)	(None, 14, 14, 728)	0	bl
block6_sepconv2 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block6_sepconv2_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block6_sepconv3_act (Activation)	(None, 14, 14, 728)	0	bl
block6_sepconv3 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block6_sepconv3_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
add_4 (Add)	(None, 14, 14, 728)	0	bl ad
block7_sepconv1_act (Activation)	(None, 14, 14, 728)	0	ad
block7_sepconv1 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block7_sepconv1_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block7_sepconv2_act (Activation)	(None, 14, 14, 728)	0	bl
block7_sepconv2 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl

block7_sepconv2_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block7_sepconv3_act (Activation)	(None, 14, 14, 728)	0	bl
block7_sepconv3 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block7_sepconv3_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
add_5 (Add)	(None, 14, 14, 728)	0	bl ad
block8_sepconv1_act (Activation)	(None, 14, 14, 728)	0	ad
block8_sepconv1 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block8_sepconv1_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block8_sepconv2_act (Activation)	(None, 14, 14, 728)	0	bl
block8_sepconv2 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block8_sepconv2_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block8_sepconv3_act (Activation)	(None, 14, 14, 728)	0	bl
block8_sepconv3 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block8_sepconv3_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
add_6 (Add)	(None, 14, 14, 728)	0	bl ad
block9_sepconv1_act (Activation)	(None, 14, 14, 728)	0	ad
block9_sepconv1 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block9_sepconv1_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block9_sepconv2_act (Activation)	(None, 14, 14, 728)	0	bl
block9_sepconv2 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl

block9_sepconv2_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block9_sepconv3_act (Activation)	(None, 14, 14, 728)	0	bl
block9_sepconv3 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block9_sepconv3_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
add_7 (Add)	(None, 14, 14, 728)	0	bl ad
block10_sepconv1_act (Activation)	(None, 14, 14, 728)	0	ad
block10_sepconv1 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block10_sepconv1_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block10_sepconv2_act (Activation)	(None, 14, 14, 728)	0	bl
block10_sepconv2 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block10_sepconv2_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block10_sepconv3_act (Activation)	(None, 14, 14, 728)	0	bl
block10_sepconv3 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block10_sepconv3_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
add_8 (Add)	(None, 14, 14, 728)	0	bl ad
block11_sepconv1_act (Activation)	(None, 14, 14, 728)	0	ad
block11_sepconv1 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block11_sepconv1_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block11_sepconv2_act (Activation)	(None, 14, 14, 728)	0	bl
block11_sepconv2 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl

block11_sepconv2_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block11_sepconv3_act (Activation)	(None, 14, 14, 728)	0	bl
block11_sepconv3 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block11_sepconv3_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
add_9 (Add)	(None, 14, 14, 728)	0	bl ad
block12_sepconv1_act (Activation)	(None, 14, 14, 728)	0	ad
block12_sepconv1 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block12_sepconv1_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block12_sepconv2_act (Activation)	(None, 14, 14, 728)	0	bl
block12_sepconv2 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block12_sepconv2_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block12_sepconv3_act (Activation)	(None, 14, 14, 728)	0	bl
block12_sepconv3 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block12_sepconv3_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
add_10 (Add)	(None, 14, 14, 728)	0	bl ad
block13_sepconv1_act (Activation)	(None, 14, 14, 728)	0	ad
block13_sepconv1 (SeparableConv2D)	(None, 14, 14, 728)	536,536	bl
block13_sepconv1_bn (BatchNormalization)	(None, 14, 14, 728)	2,912	bl
block13_sepconv2_act (Activation)	(None, 14, 14, 728)	0	bl
block13_sepconv2 (SeparableConv2D)	(None, 14, 14, 1024)	752,024	bl

block13_sepconv2_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	bl
conv2d_3 (Conv2D)	(None, 7, 7, 1024)	745,472	ad
block13_pool (MaxPooling2D)	(None, 7, 7, 1024)	0	bl
batch_normalization_3 (BatchNormalization)	(None, 7, 7, 1024)	4,096	co
add_11 (Add)	(None, 7, 7, 1024)	0	bl ba
block14_sepconv1 (SeparableConv2D)	(None, 7, 7, 1536)	1,582,080	ad
block14_sepconv1_bn (BatchNormalization)	(None, 7, 7, 1536)	6,144	bl
block14_sepconv1_act (Activation)	(None, 7, 7, 1536)	0	bl
block14_sepconv2 (SeparableConv2D)	(None, 7, 7, 2048)	3,159,552	bl
block14_sepconv2_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	bl
block14_sepconv2_act (Activation)	(None, 7, 7, 2048)	0	bl
reshape_6 (Reshape)	(None, 49, 2048)	0	bl
multi_head_attention_3 (MultiHeadAttention)	(None, 49, 2048)	134,268,928	re re
reshape_7 (Reshape)	(None, 7, 7, 2048)	0	mu
gaussian_noise_6 (GaussianNoise)	(None, 7, 7, 2048)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 2048)	0	ga
dense_6 (Dense)	(None, 512)	1,049,088	gl
gaussian_noise_7 (GaussianNoise)	(None, 512)	0	de
dropout_7 (Dropout)	(None, 512)	0	ga
dense_7 (Dense)	(None, 1)	513	dr

Total params: 156,180,009 (595.78 MB)

Trainable params: 135,318,529 (516.20 MB)

```
Non-trainable params: 20,861,480 (79.58 MB)
```

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()

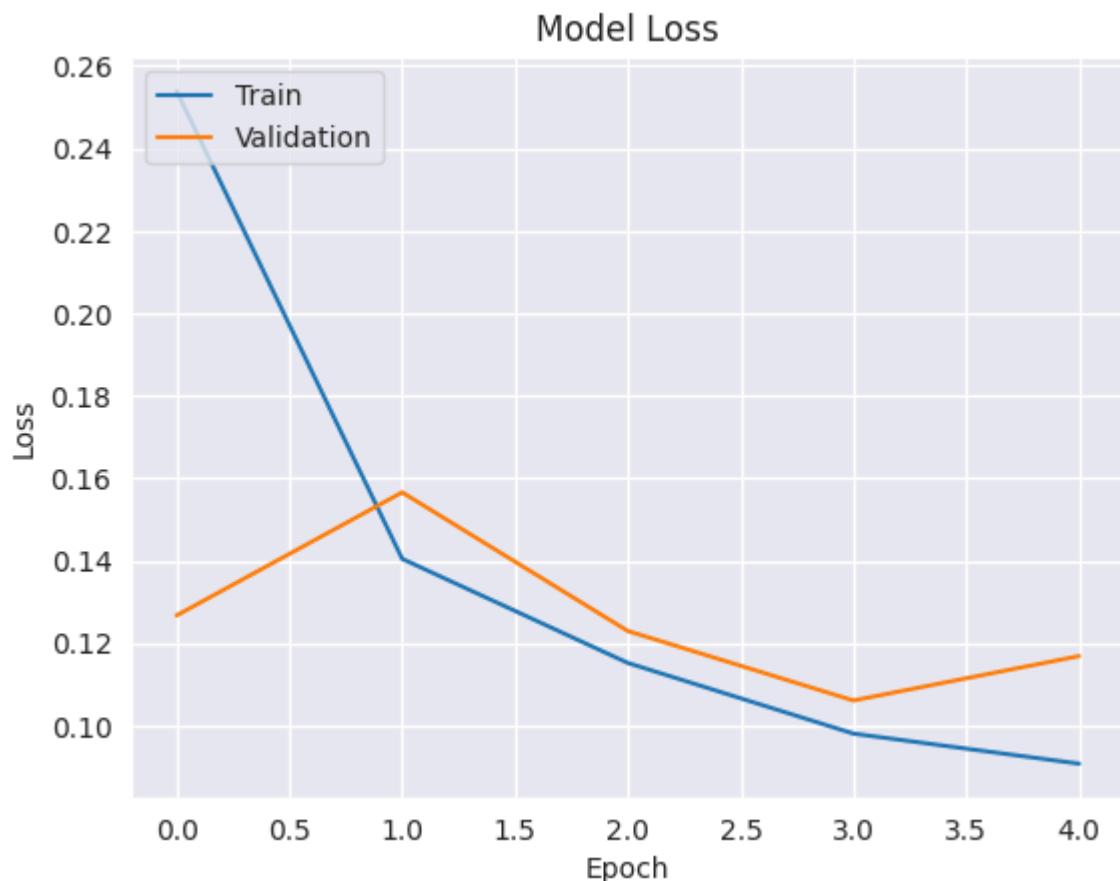
Epoch 1/5
105/105 ━━━━━━━━━━ 712s 7s/step - accuracy: 0.8204 - loss: 0.3902 - val
_accuracy: 0.9524 - val_loss: 0.1267
Epoch 2/5
105/105 ━━━━━━━━━━ 702s 7s/step - accuracy: 0.9555 - loss: 0.1299 - val
_accuracy: 0.9333 - val_loss: 0.1566
Epoch 3/5
105/105 ━━━━━━━━━━ 742s 7s/step - accuracy: 0.9613 - loss: 0.1088 - val
_accuracy: 0.9524 - val_loss: 0.1229
Epoch 4/5
105/105 ━━━━━━━━━━ 708s 7s/step - accuracy: 0.9657 - loss: 0.0987 - val
_accuracy: 0.9619 - val_loss: 0.1061
Epoch 5/5
105/105 ━━━━━━━━━━ 703s 7s/step - accuracy: 0.9676 - loss: 0.0934 - val
_accuracy: 0.9667 - val_loss: 0.1168
```

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for Xception => {inference_time:.4f} seconds")
```

Inference time for Xception => 3568.2455 seconds

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



```
In [ ]: test_labels = test_gen_new.classes
predictions = cnn_model.predict(test_gen_new)
predicted_labels = (predictions > 0.5).astype(int).flatten()
```

14/14 ━━━━━━ 33s 2s/step

```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list())
print(Fore.BLUE + "Report for Xception Model => ")
print(report)
```

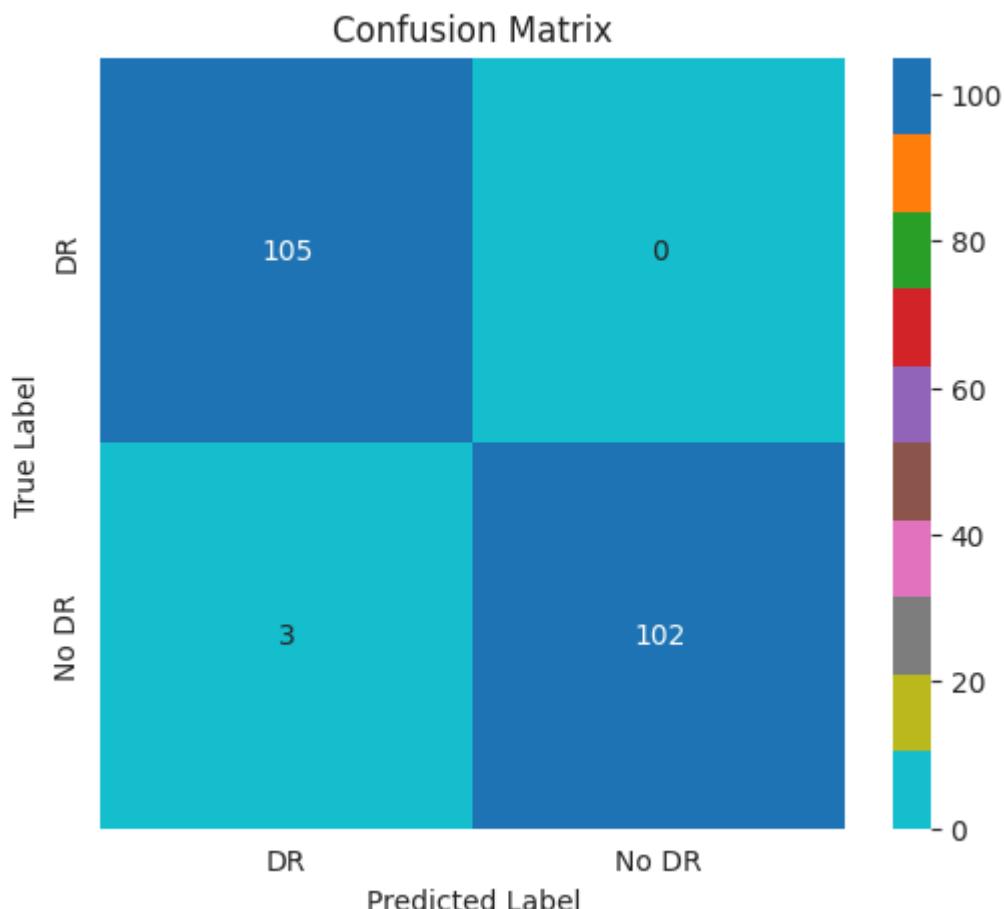
```
Report for Xception Model =>
      precision    recall  f1-score   support

          0       0.97     1.00     0.99     105
          1       1.00     0.97     0.99     105

   accuracy                           0.99     210
 macro avg       0.99     0.99     0.99     210
weighted avg     0.99     0.99     0.99     210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)

plt.figure(figsize=(6, 5))
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='tab10_r', xticklabels=['DR',
plt.xlabel('Predicted Label')
plt.ylabel('True Label')
plt.title('Confusion Matrix')
plt.show()
```



InceptionV3 -->

```
In [ ]: def create_inception_model(input_shape):
    inputs = Input(shape=input_shape)
```

```

base_model = InceptionV3(weights='imagenet', input_tensor=inputs, include_top=False)

for layer in base_model.layers:
    layer.trainable = False

x = base_model.output

height, width, channels = 5, 5, 2048
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='relu')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

```

input_shape = (224, 224, 3)

cnn_model = create_inception_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
 loss='binary_crossentropy',
 metrics=['accuracy'])

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/inception_v3/inception_v3_weights_tf_dim_ordering_tf_kernels_notop.h5
87910968/87910968 ————— 0s 0us/step

In []: `cnn_model.summary()`

Model: "functional_4"

Layer (type)	Output Shape	Param #	Co
input_layer_4 (InputLayer)	(None, 224, 224, 3)	0	-
conv2d_4 (Conv2D)	(None, 111, 111, 32)	864	in
batch_normalization_4 (BatchNormalization)	(None, 111, 111, 32)	96	co
activation (Activation)	(None, 111, 111, 32)	0	ba
conv2d_5 (Conv2D)	(None, 109, 109, 32)	9,216	ac
batch_normalization_5 (BatchNormalization)	(None, 109, 109, 32)	96	co
activation_1 (Activation)	(None, 109, 109, 32)	0	ba
conv2d_6 (Conv2D)	(None, 109, 109, 64)	18,432	ac
batch_normalization_6 (BatchNormalization)	(None, 109, 109, 64)	192	co
activation_2 (Activation)	(None, 109, 109, 64)	0	ba
max_pooling2d (MaxPooling2D)	(None, 54, 54, 64)	0	ac
conv2d_7 (Conv2D)	(None, 54, 54, 80)	5,120	ma
batch_normalization_7 (BatchNormalization)	(None, 54, 54, 80)	240	co
activation_3 (Activation)	(None, 54, 54, 80)	0	ba
conv2d_8 (Conv2D)	(None, 52, 52, 192)	138,240	ac
batch_normalization_8 (BatchNormalization)	(None, 52, 52, 192)	576	co
activation_4 (Activation)	(None, 52, 52, 192)	0	ba
max_pooling2d_1 (MaxPooling2D)	(None, 25, 25, 192)	0	ac
conv2d_12 (Conv2D)	(None, 25, 25, 64)	12,288	ma
batch_normalization_12 (BatchNormalization)	(None, 25, 25, 64)	192	co
activation_8 (Activation)	(None, 25, 25, 64)	0	ba
conv2d_10 (Conv2D)	(None, 25, 25, 48)	9,216	ma
conv2d_13 (Conv2D)	(None, 25, 25, 96)	55,296	ac
batch_normalization_10 (BatchNormalization)	(None, 25, 25, 48)	144	co

batch_normalization_13 (BatchNormalization)	(None, 25, 25, 96)	288	co
activation_6 (Activation)	(None, 25, 25, 48)	0	ba
activation_9 (Activation)	(None, 25, 25, 96)	0	ba
average_pooling2d (AveragePooling2D)	(None, 25, 25, 192)	0	ma
conv2d_9 (Conv2D)	(None, 25, 25, 64)	12,288	ma
conv2d_11 (Conv2D)	(None, 25, 25, 64)	76,800	ac
conv2d_14 (Conv2D)	(None, 25, 25, 96)	82,944	ac
conv2d_15 (Conv2D)	(None, 25, 25, 32)	6,144	av
batch_normalization_9 (BatchNormalization)	(None, 25, 25, 64)	192	co
batch_normalization_11 (BatchNormalization)	(None, 25, 25, 64)	192	co
batch_normalization_14 (BatchNormalization)	(None, 25, 25, 96)	288	co
batch_normalization_15 (BatchNormalization)	(None, 25, 25, 32)	96	co
activation_5 (Activation)	(None, 25, 25, 64)	0	ba
activation_7 (Activation)	(None, 25, 25, 64)	0	ba
activation_10 (Activation)	(None, 25, 25, 96)	0	ba
activation_11 (Activation)	(None, 25, 25, 32)	0	ba
mixed0 (Concatenate)	(None, 25, 25, 256)	0	ac
		0	ac
		0	ac
		0	ac
conv2d_19 (Conv2D)	(None, 25, 25, 64)	16,384	mi
batch_normalization_19 (BatchNormalization)	(None, 25, 25, 64)	192	co
activation_15 (Activation)	(None, 25, 25, 64)	0	ba
conv2d_17 (Conv2D)	(None, 25, 25, 48)	12,288	mi
conv2d_20 (Conv2D)	(None, 25, 25, 96)	55,296	ac
batch_normalization_17 (BatchNormalization)	(None, 25, 25, 48)	144	co

batch_normalization_20 (BatchNormalization)	(None, 25, 25, 96)	288	co
activation_13 (Activation)	(None, 25, 25, 48)	0	ba
activation_16 (Activation)	(None, 25, 25, 96)	0	ba
average_pooling2d_1 (AveragePooling2D)	(None, 25, 25, 256)	0	mi
conv2d_16 (Conv2D)	(None, 25, 25, 64)	16,384	mi
conv2d_18 (Conv2D)	(None, 25, 25, 64)	76,800	ac
conv2d_21 (Conv2D)	(None, 25, 25, 96)	82,944	ac
conv2d_22 (Conv2D)	(None, 25, 25, 64)	16,384	av
batch_normalization_16 (BatchNormalization)	(None, 25, 25, 64)	192	co
batch_normalization_18 (BatchNormalization)	(None, 25, 25, 64)	192	co
batch_normalization_21 (BatchNormalization)	(None, 25, 25, 96)	288	co
batch_normalization_22 (BatchNormalization)	(None, 25, 25, 64)	192	co
activation_12 (Activation)	(None, 25, 25, 64)	0	ba
activation_14 (Activation)	(None, 25, 25, 64)	0	ba
activation_17 (Activation)	(None, 25, 25, 96)	0	ba
activation_18 (Activation)	(None, 25, 25, 64)	0	ba
mixed1 (Concatenate)	(None, 25, 25, 288)	0	ac
		0	ac
		0	ac
		0	ac
conv2d_26 (Conv2D)	(None, 25, 25, 64)	18,432	mi
batch_normalization_26 (BatchNormalization)	(None, 25, 25, 64)	192	co
activation_22 (Activation)	(None, 25, 25, 64)	0	ba
conv2d_24 (Conv2D)	(None, 25, 25, 48)	13,824	mi

conv2d_27 (Conv2D)	(None, 25, 25, 96)	55,296	ac
batch_normalization_24 (BatchNormalization)	(None, 25, 25, 48)	144	co
batch_normalization_27 (BatchNormalization)	(None, 25, 25, 96)	288	co
activation_20 (Activation)	(None, 25, 25, 48)	0	ba
activation_23 (Activation)	(None, 25, 25, 96)	0	ba
average_pooling2d_2 (AveragePooling2D)	(None, 25, 25, 288)	0	mi
conv2d_23 (Conv2D)	(None, 25, 25, 64)	18,432	mi
conv2d_25 (Conv2D)	(None, 25, 25, 64)	76,800	ac
conv2d_28 (Conv2D)	(None, 25, 25, 96)	82,944	ac
conv2d_29 (Conv2D)	(None, 25, 25, 64)	18,432	av
batch_normalization_23 (BatchNormalization)	(None, 25, 25, 64)	192	co
batch_normalization_25 (BatchNormalization)	(None, 25, 25, 64)	192	co
batch_normalization_28 (BatchNormalization)	(None, 25, 25, 96)	288	co
batch_normalization_29 (BatchNormalization)	(None, 25, 25, 64)	192	co
activation_19 (Activation)	(None, 25, 25, 64)	0	ba
activation_21 (Activation)	(None, 25, 25, 64)	0	ba
activation_24 (Activation)	(None, 25, 25, 96)	0	ba
activation_25 (Activation)	(None, 25, 25, 64)	0	ba
mixed2 (Concatenate)	(None, 25, 25, 288)	0	ac ac ac ac
conv2d_31 (Conv2D)	(None, 25, 25, 64)	18,432	mi
batch_normalization_31 (BatchNormalization)	(None, 25, 25, 64)	192	co
activation_27	(None, 25, 25, 64)	0	ba

(Activation)				
conv2d_32 (Conv2D)	(None, 25, 25, 96)	55,296		ac
batch_normalization_32 (BatchNormalization)	(None, 25, 25, 96)	288		co
activation_28 (Activation)	(None, 25, 25, 96)	0		ba
conv2d_30 (Conv2D)	(None, 12, 12, 384)	995,328		mi
conv2d_33 (Conv2D)	(None, 12, 12, 96)	82,944		ac
batch_normalization_30 (BatchNormalization)	(None, 12, 12, 384)	1,152		co
batch_normalization_33 (BatchNormalization)	(None, 12, 12, 96)	288		co
activation_26 (Activation)	(None, 12, 12, 384)	0		ba
activation_29 (Activation)	(None, 12, 12, 96)	0		ba
max_pooling2d_2 (MaxPooling2D)	(None, 12, 12, 288)	0		mi
mixed3 (Concatenate)	(None, 12, 12, 768)	0	ac ac ma	
conv2d_38 (Conv2D)	(None, 12, 12, 128)	98,304		mi
batch_normalization_38 (BatchNormalization)	(None, 12, 12, 128)	384		co
activation_34 (Activation)	(None, 12, 12, 128)	0		ba
conv2d_39 (Conv2D)	(None, 12, 12, 128)	114,688		ac
batch_normalization_39 (BatchNormalization)	(None, 12, 12, 128)	384		co
activation_35 (Activation)	(None, 12, 12, 128)	0		ba
conv2d_35 (Conv2D)	(None, 12, 12, 128)	98,304		mi
conv2d_40 (Conv2D)	(None, 12, 12, 128)	114,688		ac
batch_normalization_35 (BatchNormalization)	(None, 12, 12, 128)	384		co
batch_normalization_40 (BatchNormalization)	(None, 12, 12, 128)	384		co
activation_31	(None, 12, 12, 128)	0		ba

(Activation)				
activation_36 (Activation)	(None, 12, 12, 128)	0	ba	
conv2d_36 (Conv2D)	(None, 12, 12, 128)	114,688	ac	
conv2d_41 (Conv2D)	(None, 12, 12, 128)	114,688	ac	
batch_normalization_36 (BatchNormalization)	(None, 12, 12, 128)	384	co	
batch_normalization_41 (BatchNormalization)	(None, 12, 12, 128)	384	co	
activation_32 (Activation)	(None, 12, 12, 128)	0	ba	
activation_37 (Activation)	(None, 12, 12, 128)	0	ba	
average_pooling2d_3 (AveragePooling2D)	(None, 12, 12, 768)	0	mi	
conv2d_34 (Conv2D)	(None, 12, 12, 192)	147,456	mi	
conv2d_37 (Conv2D)	(None, 12, 12, 192)	172,032	ac	
conv2d_42 (Conv2D)	(None, 12, 12, 192)	172,032	ac	
conv2d_43 (Conv2D)	(None, 12, 12, 192)	147,456	av	
batch_normalization_34 (BatchNormalization)	(None, 12, 12, 192)	576	co	
batch_normalization_37 (BatchNormalization)	(None, 12, 12, 192)	576	co	
batch_normalization_42 (BatchNormalization)	(None, 12, 12, 192)	576	co	
batch_normalization_43 (BatchNormalization)	(None, 12, 12, 192)	576	co	
activation_30 (Activation)	(None, 12, 12, 192)	0	ba	
activation_33 (Activation)	(None, 12, 12, 192)	0	ba	
activation_38 (Activation)	(None, 12, 12, 192)	0	ba	
activation_39 (Activation)	(None, 12, 12, 192)	0	ba	
mixed4 (Concatenate)	(None, 12, 12, 768)	0	ac	
			ac	
			ac	
			ac	

conv2d_48 (Conv2D)	(None, 12, 12, 160)	122,880	mi
batch_normalization_48 (BatchNormalization)	(None, 12, 12, 160)	480	co
activation_44 (Activation)	(None, 12, 12, 160)	0	ba
conv2d_49 (Conv2D)	(None, 12, 12, 160)	179,200	ac
batch_normalization_49 (BatchNormalization)	(None, 12, 12, 160)	480	co
activation_45 (Activation)	(None, 12, 12, 160)	0	ba
conv2d_45 (Conv2D)	(None, 12, 12, 160)	122,880	mi
conv2d_50 (Conv2D)	(None, 12, 12, 160)	179,200	ac
batch_normalization_45 (BatchNormalization)	(None, 12, 12, 160)	480	co
batch_normalization_50 (BatchNormalization)	(None, 12, 12, 160)	480	co
activation_41 (Activation)	(None, 12, 12, 160)	0	ba
activation_46 (Activation)	(None, 12, 12, 160)	0	ba
conv2d_46 (Conv2D)	(None, 12, 12, 160)	179,200	ac
conv2d_51 (Conv2D)	(None, 12, 12, 160)	179,200	ac
batch_normalization_46 (BatchNormalization)	(None, 12, 12, 160)	480	co
batch_normalization_51 (BatchNormalization)	(None, 12, 12, 160)	480	co
activation_42 (Activation)	(None, 12, 12, 160)	0	ba
activation_47 (Activation)	(None, 12, 12, 160)	0	ba
average_pooling2d_4 (AveragePooling2D)	(None, 12, 12, 768)	0	mi
conv2d_44 (Conv2D)	(None, 12, 12, 192)	147,456	mi
conv2d_47 (Conv2D)	(None, 12, 12, 192)	215,040	ac
conv2d_52 (Conv2D)	(None, 12, 12, 192)	215,040	ac
conv2d_53 (Conv2D)	(None, 12, 12, 192)	147,456	av

batch_normalization_44 (BatchNormalization)	(None, 12, 12, 192)	576	co
batch_normalization_47 (BatchNormalization)	(None, 12, 12, 192)	576	co
batch_normalization_52 (BatchNormalization)	(None, 12, 12, 192)	576	co
batch_normalization_53 (BatchNormalization)	(None, 12, 12, 192)	576	co
activation_40 (Activation)	(None, 12, 12, 192)	0	ba
activation_43 (Activation)	(None, 12, 12, 192)	0	ba
activation_48 (Activation)	(None, 12, 12, 192)	0	ba
activation_49 (Activation)	(None, 12, 12, 192)	0	ba
mixed5 (Concatenate)	(None, 12, 12, 768)	0	ac ac ac ac
conv2d_58 (Conv2D)	(None, 12, 12, 160)	122,880	mi
batch_normalization_58 (BatchNormalization)	(None, 12, 12, 160)	480	co
activation_54 (Activation)	(None, 12, 12, 160)	0	ba
conv2d_59 (Conv2D)	(None, 12, 12, 160)	179,200	ac
batch_normalization_59 (BatchNormalization)	(None, 12, 12, 160)	480	co
activation_55 (Activation)	(None, 12, 12, 160)	0	ba
conv2d_55 (Conv2D)	(None, 12, 12, 160)	122,880	mi
conv2d_60 (Conv2D)	(None, 12, 12, 160)	179,200	ac
batch_normalization_55 (BatchNormalization)	(None, 12, 12, 160)	480	co
batch_normalization_60 (BatchNormalization)	(None, 12, 12, 160)	480	co
activation_51 (Activation)	(None, 12, 12, 160)	0	ba
activation_56 (Activation)	(None, 12, 12, 160)	0	ba

conv2d_56 (Conv2D)	(None, 12, 12, 160)	179,200	ac
conv2d_61 (Conv2D)	(None, 12, 12, 160)	179,200	ac
batch_normalization_56 (BatchNormalization)	(None, 12, 12, 160)	480	co
batch_normalization_61 (BatchNormalization)	(None, 12, 12, 160)	480	co
activation_52 (Activation)	(None, 12, 12, 160)	0	ba
activation_57 (Activation)	(None, 12, 12, 160)	0	ba
average_pooling2d_5 (AveragePooling2D)	(None, 12, 12, 768)	0	mi
conv2d_54 (Conv2D)	(None, 12, 12, 192)	147,456	mi
conv2d_57 (Conv2D)	(None, 12, 12, 192)	215,040	ac
conv2d_62 (Conv2D)	(None, 12, 12, 192)	215,040	ac
conv2d_63 (Conv2D)	(None, 12, 12, 192)	147,456	av
batch_normalization_54 (BatchNormalization)	(None, 12, 12, 192)	576	co
batch_normalization_57 (BatchNormalization)	(None, 12, 12, 192)	576	co
batch_normalization_62 (BatchNormalization)	(None, 12, 12, 192)	576	co
batch_normalization_63 (BatchNormalization)	(None, 12, 12, 192)	576	co
activation_50 (Activation)	(None, 12, 12, 192)	0	ba
activation_53 (Activation)	(None, 12, 12, 192)	0	ba
activation_58 (Activation)	(None, 12, 12, 192)	0	ba
activation_59 (Activation)	(None, 12, 12, 192)	0	ba
mixed6 (Concatenate)	(None, 12, 12, 768)	0	ac ac ac ac
conv2d_68 (Conv2D)	(None, 12, 12, 192)	147,456	mi
batch_normalization_68	(None, 12, 12, 192)	576	co

(BatchNormalization)				
activation_64 (Activation)	(None, 12, 12, 192)	0	ba	
conv2d_69 (Conv2D)	(None, 12, 12, 192)	258,048	ac	
batch_normalization_69 (BatchNormalization)	(None, 12, 12, 192)	576	co	
activation_65 (Activation)	(None, 12, 12, 192)	0	ba	
conv2d_65 (Conv2D)	(None, 12, 12, 192)	147,456	mi	
conv2d_70 (Conv2D)	(None, 12, 12, 192)	258,048	ac	
batch_normalization_65 (BatchNormalization)	(None, 12, 12, 192)	576	co	
batch_normalization_70 (BatchNormalization)	(None, 12, 12, 192)	576	co	
activation_61 (Activation)	(None, 12, 12, 192)	0	ba	
activation_66 (Activation)	(None, 12, 12, 192)	0	ba	
conv2d_66 (Conv2D)	(None, 12, 12, 192)	258,048	ac	
conv2d_71 (Conv2D)	(None, 12, 12, 192)	258,048	ac	
batch_normalization_66 (BatchNormalization)	(None, 12, 12, 192)	576	co	
batch_normalization_71 (BatchNormalization)	(None, 12, 12, 192)	576	co	
activation_62 (Activation)	(None, 12, 12, 192)	0	ba	
activation_67 (Activation)	(None, 12, 12, 192)	0	ba	
average_pooling2d_6 (AveragePooling2D)	(None, 12, 12, 768)	0	mi	
conv2d_64 (Conv2D)	(None, 12, 12, 192)	147,456	mi	
conv2d_67 (Conv2D)	(None, 12, 12, 192)	258,048	ac	
conv2d_72 (Conv2D)	(None, 12, 12, 192)	258,048	ac	
conv2d_73 (Conv2D)	(None, 12, 12, 192)	147,456	av	
batch_normalization_64 (BatchNormalization)	(None, 12, 12, 192)	576	co	
batch_normalization_67	(None, 12, 12, 192)	576	co	

(BatchNormalization)				
batch_normalization_72 (BatchNormalization)	(None, 12, 12, 192)	576	co	
batch_normalization_73 (BatchNormalization)	(None, 12, 12, 192)	576	co	
activation_60 (Activation)	(None, 12, 12, 192)	0	ba	
activation_63 (Activation)	(None, 12, 12, 192)	0	ba	
activation_68 (Activation)	(None, 12, 12, 192)	0	ba	
activation_69 (Activation)	(None, 12, 12, 192)	0	ba	
mixed7 (Concatenate)	(None, 12, 12, 768)	0	ac	
			ac	
			ac	
			ac	
conv2d_76 (Conv2D)	(None, 12, 12, 192)	147,456	mi	
batch_normalization_76 (BatchNormalization)	(None, 12, 12, 192)	576	co	
activation_72 (Activation)	(None, 12, 12, 192)	0	ba	
conv2d_77 (Conv2D)	(None, 12, 12, 192)	258,048	ac	
batch_normalization_77 (BatchNormalization)	(None, 12, 12, 192)	576	co	
activation_73 (Activation)	(None, 12, 12, 192)	0	ba	
conv2d_74 (Conv2D)	(None, 12, 12, 192)	147,456	mi	
conv2d_78 (Conv2D)	(None, 12, 12, 192)	258,048	ac	
batch_normalization_74 (BatchNormalization)	(None, 12, 12, 192)	576	co	
batch_normalization_78 (BatchNormalization)	(None, 12, 12, 192)	576	co	
activation_70 (Activation)	(None, 12, 12, 192)	0	ba	
activation_74 (Activation)	(None, 12, 12, 192)	0	ba	
conv2d_75 (Conv2D)	(None, 5, 5, 320)	552,960	ac	
conv2d_79 (Conv2D)	(None, 5, 5, 192)	331,776	ac	

batch_normalization_75 (BatchNormalization)	(None, 5, 5, 320)	960	co
batch_normalization_79 (BatchNormalization)	(None, 5, 5, 192)	576	co
activation_71 (Activation)	(None, 5, 5, 320)	0	ba
activation_75 (Activation)	(None, 5, 5, 192)	0	ba
max_pooling2d_3 (MaxPooling2D)	(None, 5, 5, 768)	0	mi
mixed8 (Concatenate)	(None, 5, 5, 1280)	0	ac ac ma
conv2d_84 (Conv2D)	(None, 5, 5, 448)	573,440	mi
batch_normalization_84 (BatchNormalization)	(None, 5, 5, 448)	1,344	co
activation_80 (Activation)	(None, 5, 5, 448)	0	ba
conv2d_81 (Conv2D)	(None, 5, 5, 384)	491,520	mi
conv2d_85 (Conv2D)	(None, 5, 5, 384)	1,548,288	ac
batch_normalization_81 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
batch_normalization_85 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
activation_77 (Activation)	(None, 5, 5, 384)	0	ba
activation_81 (Activation)	(None, 5, 5, 384)	0	ba
conv2d_82 (Conv2D)	(None, 5, 5, 384)	442,368	ac
conv2d_83 (Conv2D)	(None, 5, 5, 384)	442,368	ac
conv2d_86 (Conv2D)	(None, 5, 5, 384)	442,368	ac
conv2d_87 (Conv2D)	(None, 5, 5, 384)	442,368	ac
average_pooling2d_7 (AveragePooling2D)	(None, 5, 5, 1280)	0	mi
conv2d_80 (Conv2D)	(None, 5, 5, 320)	409,600	mi
batch_normalization_82 (BatchNormalization)	(None, 5, 5, 384)	1,152	co

batch_normalization_83 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
batch_normalization_86 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
batch_normalization_87 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
conv2d_88 (Conv2D)	(None, 5, 5, 192)	245,760	av
batch_normalization_80 (BatchNormalization)	(None, 5, 5, 320)	960	co
activation_78 (Activation)	(None, 5, 5, 384)	0	ba
activation_79 (Activation)	(None, 5, 5, 384)	0	ba
activation_82 (Activation)	(None, 5, 5, 384)	0	ba
activation_83 (Activation)	(None, 5, 5, 384)	0	ba
batch_normalization_88 (BatchNormalization)	(None, 5, 5, 192)	576	co
activation_76 (Activation)	(None, 5, 5, 320)	0	ba
mixed9_0 (Concatenate)	(None, 5, 5, 768)	0	ac ac
concatenate (Concatenate)	(None, 5, 5, 768)	0	ac ac
activation_84 (Activation)	(None, 5, 5, 192)	0	ba
mixed9 (Concatenate)	(None, 5, 5, 2048)	0	ac mi co ac
conv2d_93 (Conv2D)	(None, 5, 5, 448)	917,504	mi
batch_normalization_93 (BatchNormalization)	(None, 5, 5, 448)	1,344	co
activation_89 (Activation)	(None, 5, 5, 448)	0	ba
conv2d_90 (Conv2D)	(None, 5, 5, 384)	786,432	mi
conv2d_94 (Conv2D)	(None, 5, 5, 384)	1,548,288	ac
batch_normalization_90 (BatchNormalization)	(None, 5, 5, 384)	1,152	co

batch_normalization_94 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
activation_86 (Activation)	(None, 5, 5, 384)	0	ba
activation_90 (Activation)	(None, 5, 5, 384)	0	ba
conv2d_91 (Conv2D)	(None, 5, 5, 384)	442,368	ac
conv2d_92 (Conv2D)	(None, 5, 5, 384)	442,368	ac
conv2d_95 (Conv2D)	(None, 5, 5, 384)	442,368	ac
conv2d_96 (Conv2D)	(None, 5, 5, 384)	442,368	ac
average_pooling2d_8 (AveragePooling2D)	(None, 5, 5, 2048)	0	mi
conv2d_89 (Conv2D)	(None, 5, 5, 320)	655,360	mi
batch_normalization_91 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
batch_normalization_92 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
batch_normalization_95 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
batch_normalization_96 (BatchNormalization)	(None, 5, 5, 384)	1,152	co
conv2d_97 (Conv2D)	(None, 5, 5, 192)	393,216	av
batch_normalization_89 (BatchNormalization)	(None, 5, 5, 320)	960	co
activation_87 (Activation)	(None, 5, 5, 384)	0	ba
activation_88 (Activation)	(None, 5, 5, 384)	0	ba
activation_91 (Activation)	(None, 5, 5, 384)	0	ba
activation_92 (Activation)	(None, 5, 5, 384)	0	ba
batch_normalization_97 (BatchNormalization)	(None, 5, 5, 192)	576	co
activation_85 (Activation)	(None, 5, 5, 320)	0	ba
mixed9_1 (Concatenate)	(None, 5, 5, 768)	0	ac ac

concatenate_1 (Concatenate)	(None, 5, 5, 768)	0	ac ac
activation_93 (Activation)	(None, 5, 5, 192)	0	ba
mixed10 (Concatenate)	(None, 5, 5, 2048)	0	ac mi co ac
reshape_8 (Reshape)	(None, 25, 2048)	0	mi
multi_head_attention_4 (MultiHeadAttention)	(None, 25, 2048)	134,268,928	re re
reshape_9 (Reshape)	(None, 5, 5, 2048)	0	mu
gaussian_noise_8 (GaussianNoise)	(None, 5, 5, 2048)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 2048)	0	ga
dense_8 (Dense)	(None, 512)	1,049,088	gl
gaussian_noise_9 (GaussianNoise)	(None, 512)	0	de
dropout_9 (Dropout)	(None, 512)	0	ga
dense_9 (Dense)	(None, 1)	513	dr

Total params: 157,121,313 (599.37 MB)

Trainable params: 135,318,529 (516.20 MB)

Non-trainable params: 21,802,784 (83.17 MB)

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

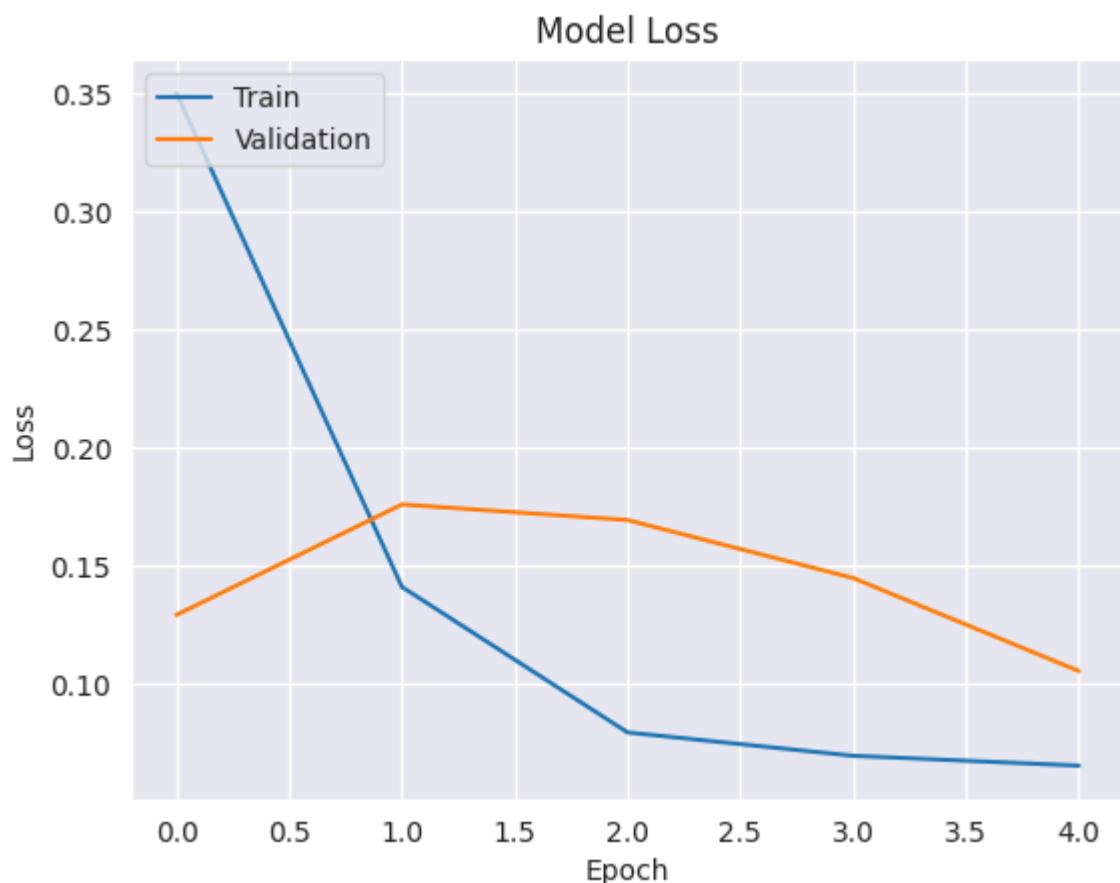
```
Epoch 1/5
105/105 546s 5s/step - accuracy: 0.7583 - loss: 0.5733 - val
_accuracy: 0.9571 - val_loss: 0.1293
Epoch 2/5
105/105 536s 5s/step - accuracy: 0.9569 - loss: 0.1401 - val
_accuracy: 0.9333 - val_loss: 0.1761
Epoch 3/5
105/105 534s 5s/step - accuracy: 0.9734 - loss: 0.0719 - val
_accuracy: 0.9381 - val_loss: 0.1695
Epoch 4/5
105/105 533s 5s/step - accuracy: 0.9818 - loss: 0.0575 - val
_accuracy: 0.9381 - val_loss: 0.1449
Epoch 5/5
105/105 529s 5s/step - accuracy: 0.9768 - loss: 0.0725 - val
_accuracy: 0.9619 - val_loss: 0.1056
```

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for InceptionV3 => {inference_time:.4f} seconds")
```

```
Inference time for InceptionV3 => 2678.2266 seconds
```

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



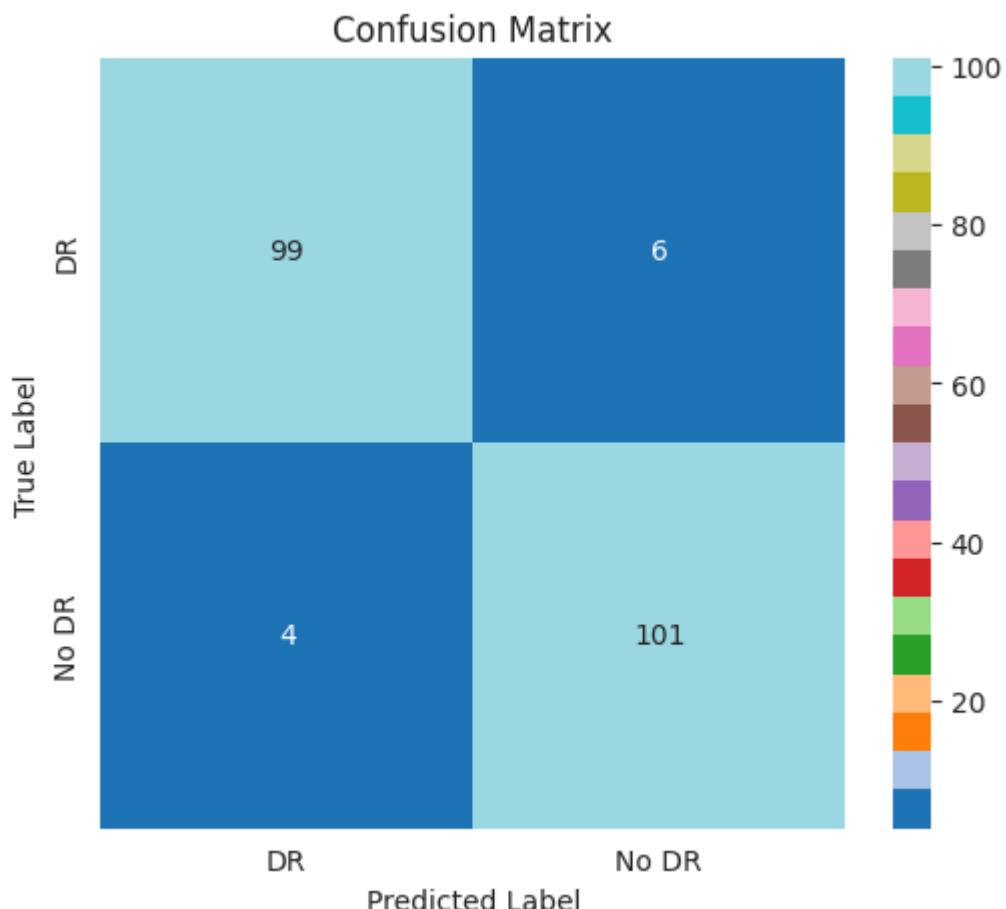
```
In [ ]: test_labels = test_gen_new.classes
predictions = cnn_model.predict(test_gen_new)
predicted_labels = (predictions > 0.5).astype(int).flatten()
```

14/14 23s 1s/step

```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(Fore.BLUE + "Report for Inception Model => ")  
print(report)
```

```
Report for Inception Model =>  
precision recall f1-score support  
  
0 0.96 0.94 0.95 105  
1 0.94 0.96 0.95 105  
  
accuracy 0.95 0.95 0.95 210  
macro avg 0.95 0.95 0.95 210  
weighted avg 0.95 0.95 0.95 210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)  
  
plt.figure(figsize=(6, 5))  
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='tab20', xticklabels=['DR', 'No DR'],  
            yticklabels=['True Label', 'No DR'])  
plt.xlabel('Predicted Label')  
plt.ylabel('True Label')  
plt.title('Confusion Matrix')  
plt.show()
```



ResNet50 -->

```
In [ ]: def create_resnet_model(input_shape):  
    inputs = Input(shape=input_shape)
```

```
base_model = ResNet50(weights='imagenet', input_tensor=inputs, include_top=False)

for layer in base_model.layers:
    layer.trainable = False

x = base_model.output

height, width, channels = 7, 7, 2048
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='relu')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

input_shape = (224, 224, 3)

cnn_model = create_resnet_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                  loss='binary_crossentropy',
                  metrics=[ 'accuracy' ])
```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/resnet/resnet50_weights_tf_dim_ordering_tf_kernels_notop.h5
94765736/94765736 ————— 0s 0us/step

In []: `cnn_model.summary()`

Model: "functional_5"

Layer (type)	Output Shape	Param #	Co
input_layer_5 (InputLayer)	(None, 224, 224, 3)	0	-
conv1_pad (ZeroPadding2D)	(None, 230, 230, 3)	0	in
conv1_conv (Conv2D)	(None, 112, 112, 64)	9,472	co
conv1_bn (BatchNormalization)	(None, 112, 112, 64)	256	co
conv1_relu (Activation)	(None, 112, 112, 64)	0	co
pool1_pad (ZeroPadding2D)	(None, 114, 114, 64)	0	co
pool1_pool (MaxPooling2D)	(None, 56, 56, 64)	0	po
conv2_block1_1_conv (Conv2D)	(None, 56, 56, 64)	4,160	po
conv2_block1_1_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block1_1_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block1_2_conv (Conv2D)	(None, 56, 56, 64)	36,928	co
conv2_block1_2_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block1_2_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block1_0_conv (Conv2D)	(None, 56, 56, 256)	16,640	po
conv2_block1_3_conv (Conv2D)	(None, 56, 56, 256)	16,640	co
conv2_block1_0_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block1_3_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block1_add (Add)	(None, 56, 56, 256)	0	co co
conv2_block1_out (Activation)	(None, 56, 56, 256)	0	co
conv2_block2_1_conv (Conv2D)	(None, 56, 56, 64)	16,448	co
conv2_block2_1_bn (BatchNormalization)	(None, 56, 56, 64)	256	co

conv2_block2_1_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block2_2_conv (Conv2D)	(None, 56, 56, 64)	36,928	co
conv2_block2_2_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block2_2_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block2_3_conv (Conv2D)	(None, 56, 56, 256)	16,640	co
conv2_block2_3_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block2_add (Add)	(None, 56, 56, 256)	0	co co
conv2_block2_out (Activation)	(None, 56, 56, 256)	0	co
conv2_block3_1_conv (Conv2D)	(None, 56, 56, 64)	16,448	co
conv2_block3_1_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block3_1_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block3_2_conv (Conv2D)	(None, 56, 56, 64)	36,928	co
conv2_block3_2_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block3_2_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block3_3_conv (Conv2D)	(None, 56, 56, 256)	16,640	co
conv2_block3_3_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block3_add (Add)	(None, 56, 56, 256)	0	co co
conv2_block3_out (Activation)	(None, 56, 56, 256)	0	co
conv3_block1_1_conv (Conv2D)	(None, 28, 28, 128)	32,896	co
conv3_block1_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co

conv3_block1_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block1_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block1_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_0_conv (Conv2D)	(None, 28, 28, 512)	131,584	co
conv3_block1_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block1_0_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block1_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block1_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block1_out (Activation)	(None, 28, 28, 512)	0	co
conv3_block2_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block2_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block2_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block2_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block2_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block2_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block2_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block2_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block2_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block2_out (Activation)	(None, 28, 28, 512)	0	co

conv3_block3_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block3_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block3_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block3_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block3_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block3_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block3_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block3_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block3_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block3_out (Activation)	(None, 28, 28, 512)	0	co
conv3_block4_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block4_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block4_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block4_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block4_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block4_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block4_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block4_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block4_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block4_out (Activation)	(None, 28, 28, 512)	0	co

conv4_block1_1_conv (Conv2D)	(None, 14, 14, 256)	131,328	co
conv4_block1_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block1_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block1_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block1_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block1_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block1_0_conv (Conv2D)	(None, 14, 14, 1024)	525,312	co
conv4_block1_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block1_0_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block1_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block1_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block1_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block2_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block2_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block2_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block2_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block2_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block2_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block2_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block2_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block2_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block2_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block3_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block3_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block3_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block3_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block3_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block3_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block3_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block3_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block3_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block3_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block4_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block4_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block4_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block4_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block4_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block4_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block4_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block4_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block4_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block4_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block5_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block5_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block5_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block5_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block5_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block5_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block5_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block5_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block5_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block5_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block6_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block6_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block6_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block6_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block6_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block6_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block6_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block6_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block6_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block6_out (Activation)	(None, 14, 14, 1024)	0	co
conv5_block1_1_conv (Conv2D)	(None, 7, 7, 512)	524,800	co
conv5_block1_1_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block1_1_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block1_2_conv (Conv2D)	(None, 7, 7, 512)	2,359,808	co
conv5_block1_2_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block1_2_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block1_0_conv (Conv2D)	(None, 7, 7, 2048)	2,099,200	co
conv5_block1_3_conv (Conv2D)	(None, 7, 7, 2048)	1,050,624	co
conv5_block1_0_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block1_3_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block1_add (Add)	(None, 7, 7, 2048)	0	co co
conv5_block1_out (Activation)	(None, 7, 7, 2048)	0	co
conv5_block2_1_conv (Conv2D)	(None, 7, 7, 512)	1,049,088	co
conv5_block2_1_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block2_1_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block2_2_conv (Conv2D)	(None, 7, 7, 512)	2,359,808	co
conv5_block2_2_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block2_2_relu (Activation)	(None, 7, 7, 512)	0	co

conv5_block2_3_conv (Conv2D)	(None, 7, 7, 2048)	1,050,624	co
conv5_block2_3_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block2_add (Add)	(None, 7, 7, 2048)	0	co co
conv5_block2_out (Activation)	(None, 7, 7, 2048)	0	co
conv5_block3_1_conv (Conv2D)	(None, 7, 7, 512)	1,049,088	co
conv5_block3_1_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block3_1_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block3_2_conv (Conv2D)	(None, 7, 7, 512)	2,359,808	co
conv5_block3_2_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block3_2_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block3_3_conv (Conv2D)	(None, 7, 7, 2048)	1,050,624	co
conv5_block3_3_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block3_add (Add)	(None, 7, 7, 2048)	0	co co
conv5_block3_out (Activation)	(None, 7, 7, 2048)	0	co
reshape_10 (Reshape)	(None, 49, 2048)	0	co
multi_head_attention_5 (MultiHeadAttention)	(None, 49, 2048)	134,268,928	re re
reshape_11 (Reshape)	(None, 7, 7, 2048)	0	mu
gaussian_noise_10 (GaussianNoise)	(None, 7, 7, 2048)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 2048)	0	ga
dense_10 (Dense)	(None, 512)	1,049,088	gl
gaussian_noise_11 (GaussianNoise)	(None, 512)	0	de

dropout_11 (Dropout)	(None, 512)	0	ga
dense_11 (Dense)	(None, 1)	513	dr

```
Total params: 158,906,241 (606.18 MB)
Trainable params: 135,318,529 (516.20 MB)
Non-trainable params: 23,587,712 (89.98 MB)
```

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

```
Epoch 1/5
105/105 ━━━━━━━━━━ 693s 7s/step - accuracy: 0.5018 - loss: 0.7776 - val_accuracy: 0.7238 - val_loss: 0.5648
Epoch 2/5
105/105 ━━━━━━━━━━ 674s 6s/step - accuracy: 0.7974 - loss: 0.4499 - val_accuracy: 0.8476 - val_loss: 0.3879
Epoch 3/5
105/105 ━━━━━━━━━━ 680s 6s/step - accuracy: 0.8443 - loss: 0.3745 - val_accuracy: 0.8429 - val_loss: 0.2854
Epoch 4/5
105/105 ━━━━━━━━━━ 676s 6s/step - accuracy: 0.8515 - loss: 0.3337 - val_accuracy: 0.8476 - val_loss: 0.2885
Epoch 5/5
105/105 ━━━━━━━━━━ 709s 7s/step - accuracy: 0.8585 - loss: 0.3189 - val_accuracy: 0.8714 - val_loss: 0.3036
```

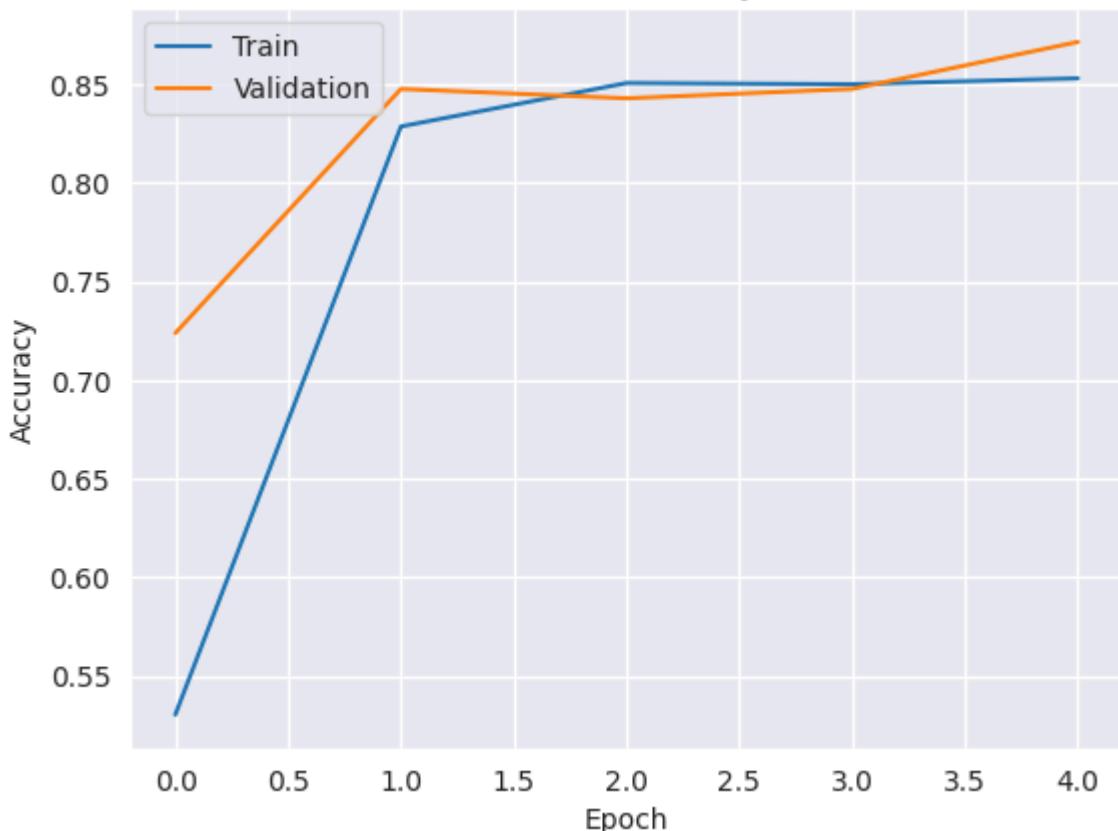
```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for ResNet50 => {inference_time:.4f} seconds")
```

```
Inference time for ResNet50 => 3433.3022 seconds
```

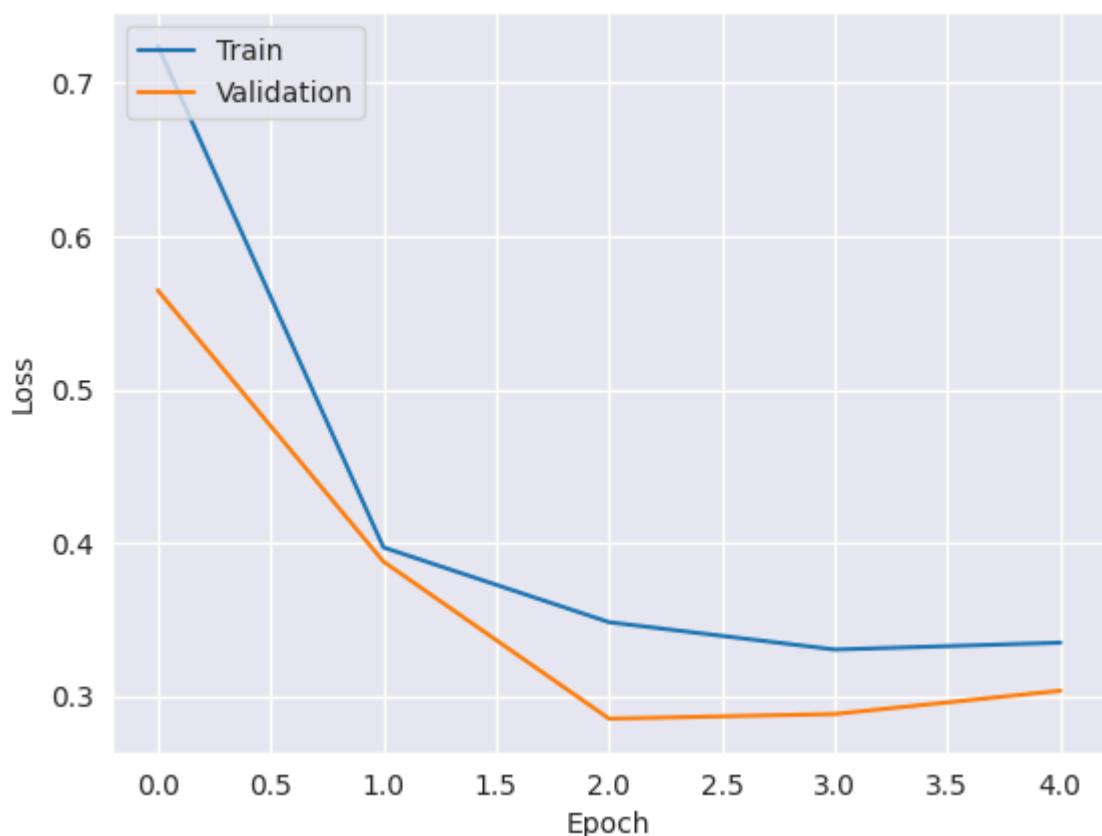
```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```

Model Accuracy



Model Loss



```
In [ ]: test_labels = test_gen_new.classes
predictions = cnn_model.predict(test_gen_new)
predicted_labels = (predictions > 0.5).astype(int).flatten()
```

14/14 ━━━━━━ 33s 2s/step

```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list())
print(Fore.BLUE + "Report for ResNet Model => ")
print(report)
```

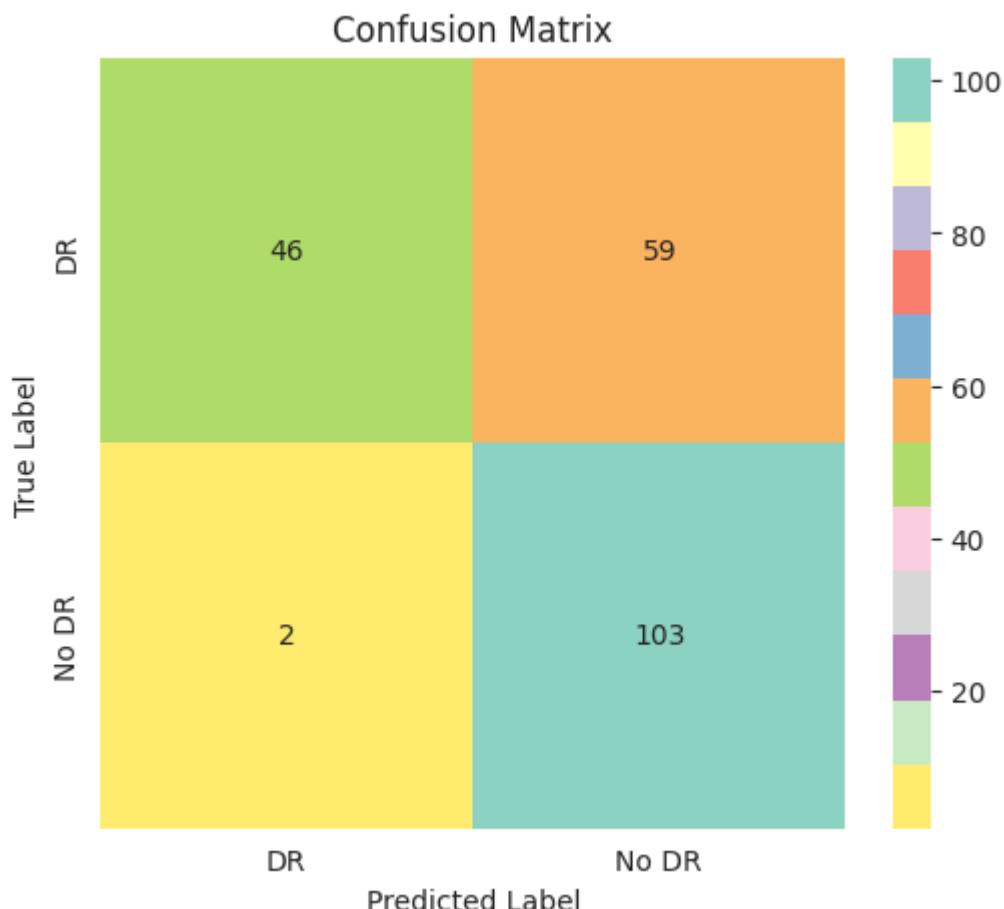
```
Report for ResNet Model =>
      precision    recall  f1-score   support

          0       0.96     0.44      0.60     105
          1       0.64     0.98      0.77     105

   accuracy                           0.71     210
 macro avg       0.80     0.71      0.69     210
weighted avg       0.80     0.71      0.69     210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)

plt.figure(figsize=(6, 5))
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='Set3_r', xticklabels=['DR',
plt.xlabel('Predicted Label')
plt.ylabel('True Label')
plt.title('Confusion Matrix')
plt.show()
```



DenseNet121 -->

```
In [ ]: def create_densenet_model(input_shape):
    inputs = Input(shape=input_shape)
```

```
base_model = DenseNet121(weights='imagenet', input_tensor=inputs, include_top=False)

for layer in base_model.layers:
    layer.trainable = False

x = base_model.output

height, width, channels = 7, 7, 1024
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='relu')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

input_shape = (224, 224, 3)

cnn_model = create_densenet_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                  loss='binary_crossentropy',
                  metrics=[ 'accuracy' ])
```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/densenet/densenet121_weights_tf_dim_ordering_tf_kernels_notop.h5
29084464/29084464 ————— 0s 0us/step

In []: `cnn_model.summary()`

Model: "functional_6"

Layer (type)	Output Shape	Param #	Co
input_layer_6 (InputLayer)	(None, 224, 224, 3)	0	-
zero_padding2d (ZeroPadding2D)	(None, 230, 230, 3)	0	in
conv1_conv (Conv2D)	(None, 112, 112, 64)	9,408	ze
conv1_bn (BatchNormalization)	(None, 112, 112, 64)	256	co
conv1_relu (Activation)	(None, 112, 112, 64)	0	co
zero_padding2d_1 (ZeroPadding2D)	(None, 114, 114, 64)	0	co
pool1 (MaxPooling2D)	(None, 56, 56, 64)	0	ze
conv2_block1_0_bn (BatchNormalization)	(None, 56, 56, 64)	256	po
conv2_block1_0_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block1_1_conv (Conv2D)	(None, 56, 56, 128)	8,192	co
conv2_block1_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block1_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block1_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block1_concat (Concatenate)	(None, 56, 56, 96)	0	po co
conv2_block2_0_bn (BatchNormalization)	(None, 56, 56, 96)	384	co
conv2_block2_0_relu (Activation)	(None, 56, 56, 96)	0	co
conv2_block2_1_conv (Conv2D)	(None, 56, 56, 128)	12,288	co
conv2_block2_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block2_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block2_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co

conv2_block2_concat (Concatenate)	(None, 56, 56, 128)	0	co co
conv2_block3_0_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block3_0_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block3_1_conv (Conv2D)	(None, 56, 56, 128)	16,384	co
conv2_block3_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block3_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block3_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block3_concat (Concatenate)	(None, 56, 56, 160)	0	co co
conv2_block4_0_bn (BatchNormalization)	(None, 56, 56, 160)	640	co
conv2_block4_0_relu (Activation)	(None, 56, 56, 160)	0	co
conv2_block4_1_conv (Conv2D)	(None, 56, 56, 128)	20,480	co
conv2_block4_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block4_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block4_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block4_concat (Concatenate)	(None, 56, 56, 192)	0	co co
conv2_block5_0_bn (BatchNormalization)	(None, 56, 56, 192)	768	co
conv2_block5_0_relu (Activation)	(None, 56, 56, 192)	0	co
conv2_block5_1_conv (Conv2D)	(None, 56, 56, 128)	24,576	co
conv2_block5_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block5_1_relu (Activation)	(None, 56, 56, 128)	0	co

conv2_block5_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block5_concat (Concatenate)	(None, 56, 56, 224)	0	co co
conv2_block6_0_bn (BatchNormalization)	(None, 56, 56, 224)	896	co
conv2_block6_0_relu (Activation)	(None, 56, 56, 224)	0	co
conv2_block6_1_conv (Conv2D)	(None, 56, 56, 128)	28,672	co
conv2_block6_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block6_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block6_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block6_concat (Concatenate)	(None, 56, 56, 256)	0	co co
pool2_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
pool2_relu (Activation)	(None, 56, 56, 256)	0	po
pool2_conv (Conv2D)	(None, 56, 56, 128)	32,768	po
pool2_pool (AveragePooling2D)	(None, 28, 28, 128)	0	po
conv3_block1_0_bn (BatchNormalization)	(None, 28, 28, 128)	512	po
conv3_block1_0_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_1_conv (Conv2D)	(None, 28, 28, 128)	16,384	co
conv3_block1_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block1_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block1_concat (Concatenate)	(None, 28, 28, 160)	0	po co
conv3_block2_0_bn (BatchNormalization)	(None, 28, 28, 160)	640	co

conv3_block2_0_relu (Activation)	(None, 28, 28, 160)	0	co
conv3_block2_1_conv (Conv2D)	(None, 28, 28, 128)	20,480	co
conv3_block2_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block2_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block2_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block2_concat (Concatenate)	(None, 28, 28, 192)	0	co co
conv3_block3_0_bn (BatchNormalization)	(None, 28, 28, 192)	768	co
conv3_block3_0_relu (Activation)	(None, 28, 28, 192)	0	co
conv3_block3_1_conv (Conv2D)	(None, 28, 28, 128)	24,576	co
conv3_block3_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block3_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block3_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block3_concat (Concatenate)	(None, 28, 28, 224)	0	co co
conv3_block4_0_bn (BatchNormalization)	(None, 28, 28, 224)	896	co
conv3_block4_0_relu (Activation)	(None, 28, 28, 224)	0	co
conv3_block4_1_conv (Conv2D)	(None, 28, 28, 128)	28,672	co
conv3_block4_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block4_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block4_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block4_concat (Concatenate)	(None, 28, 28, 256)	0	co co

conv3_block5_0_bn (BatchNormalization)	(None, 28, 28, 256)	1,024	co
conv3_block5_0_relu (Activation)	(None, 28, 28, 256)	0	co
conv3_block5_1_conv (Conv2D)	(None, 28, 28, 128)	32,768	co
conv3_block5_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block5_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block5_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block5_concat (Concatenate)	(None, 28, 28, 288)	0	co co
conv3_block6_0_bn (BatchNormalization)	(None, 28, 28, 288)	1,152	co
conv3_block6_0_relu (Activation)	(None, 28, 28, 288)	0	co
conv3_block6_1_conv (Conv2D)	(None, 28, 28, 128)	36,864	co
conv3_block6_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block6_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block6_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block6_concat (Concatenate)	(None, 28, 28, 320)	0	co co
conv3_block7_0_bn (BatchNormalization)	(None, 28, 28, 320)	1,280	co
conv3_block7_0_relu (Activation)	(None, 28, 28, 320)	0	co
conv3_block7_1_conv (Conv2D)	(None, 28, 28, 128)	40,960	co
conv3_block7_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block7_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block7_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co

conv3_block7_concat (Concatenate)	(None, 28, 28, 352)	0	co co
conv3_block8_0_bn (BatchNormalization)	(None, 28, 28, 352)	1,408	co
conv3_block8_0_relu (Activation)	(None, 28, 28, 352)	0	co
conv3_block8_1_conv (Conv2D)	(None, 28, 28, 128)	45,056	co
conv3_block8_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block8_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block8_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block8_concat (Concatenate)	(None, 28, 28, 384)	0	co co
conv3_block9_0_bn (BatchNormalization)	(None, 28, 28, 384)	1,536	co
conv3_block9_0_relu (Activation)	(None, 28, 28, 384)	0	co
conv3_block9_1_conv (Conv2D)	(None, 28, 28, 128)	49,152	co
conv3_block9_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block9_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block9_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block9_concat (Concatenate)	(None, 28, 28, 416)	0	co co
conv3_block10_0_bn (BatchNormalization)	(None, 28, 28, 416)	1,664	co
conv3_block10_0_relu (Activation)	(None, 28, 28, 416)	0	co
conv3_block10_1_conv (Conv2D)	(None, 28, 28, 128)	53,248	co
conv3_block10_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block10_1_relu (Activation)	(None, 28, 28, 128)	0	co

conv3_block10_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block10_concat (Concatenate)	(None, 28, 28, 448)	0	co co
conv3_block11_0_bn (BatchNormalization)	(None, 28, 28, 448)	1,792	co
conv3_block11_0_relu (Activation)	(None, 28, 28, 448)	0	co
conv3_block11_1_conv (Conv2D)	(None, 28, 28, 128)	57,344	co
conv3_block11_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block11_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block11_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block11_concat (Concatenate)	(None, 28, 28, 480)	0	co co
conv3_block12_0_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	co
conv3_block12_0_relu (Activation)	(None, 28, 28, 480)	0	co
conv3_block12_1_conv (Conv2D)	(None, 28, 28, 128)	61,440	co
conv3_block12_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block12_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block12_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block12_concat (Concatenate)	(None, 28, 28, 512)	0	co co
pool3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
pool3_relu (Activation)	(None, 28, 28, 512)	0	po
pool3_conv (Conv2D)	(None, 28, 28, 256)	131,072	po
pool3_pool (AveragePooling2D)	(None, 14, 14, 256)	0	po
conv4_block1_0_bn	(None, 14, 14, 256)	1,024	po

(BatchNormalization)				
conv4_block1_0_relu (Activation)	(None, 14, 14, 256)	0	co	
conv4_block1_1_conv (Conv2D)	(None, 14, 14, 128)	32,768	co	
conv4_block1_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block1_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block1_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block1_concat (Concatenate)	(None, 14, 14, 288)	0	po co	
conv4_block2_0_bn (BatchNormalization)	(None, 14, 14, 288)	1,152	co	
conv4_block2_0_relu (Activation)	(None, 14, 14, 288)	0	co	
conv4_block2_1_conv (Conv2D)	(None, 14, 14, 128)	36,864	co	
conv4_block2_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block2_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block2_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block2_concat (Concatenate)	(None, 14, 14, 320)	0	co co	
conv4_block3_0_bn (BatchNormalization)	(None, 14, 14, 320)	1,280	co	
conv4_block3_0_relu (Activation)	(None, 14, 14, 320)	0	co	
conv4_block3_1_conv (Conv2D)	(None, 14, 14, 128)	40,960	co	
conv4_block3_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block3_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block3_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block3_concat	(None, 14, 14, 352)	0	co	

(Concatenate)			co
conv4_block4_0_bn (BatchNormalization)	(None, 14, 14, 352)	1,408	co
conv4_block4_0_relu (Activation)	(None, 14, 14, 352)	0	co
conv4_block4_1_conv (Conv2D)	(None, 14, 14, 128)	45,056	co
conv4_block4_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block4_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block4_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block4_concat (Concatenate)	(None, 14, 14, 384)	0	co
conv4_block4_concat (Concatenate)		co	co
conv4_block5_0_bn (BatchNormalization)	(None, 14, 14, 384)	1,536	co
conv4_block5_0_relu (Activation)	(None, 14, 14, 384)	0	co
conv4_block5_1_conv (Conv2D)	(None, 14, 14, 128)	49,152	co
conv4_block5_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block5_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block5_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block5_concat (Concatenate)	(None, 14, 14, 416)	0	co
conv4_block5_concat (Concatenate)		co	co
conv4_block6_0_bn (BatchNormalization)	(None, 14, 14, 416)	1,664	co
conv4_block6_0_relu (Activation)	(None, 14, 14, 416)	0	co
conv4_block6_1_conv (Conv2D)	(None, 14, 14, 128)	53,248	co
conv4_block6_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block6_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block6_2_conv	(None, 14, 14, 32)	36,864	co

(Conv2D)				
conv4_block6_concat (Concatenate)	(None, 14, 14, 448)	0	co	co
conv4_block7_0_bn (BatchNormalization)	(None, 14, 14, 448)	1,792	co	
conv4_block7_0_relu (Activation)	(None, 14, 14, 448)	0	co	
conv4_block7_1_conv (Conv2D)	(None, 14, 14, 128)	57,344	co	
conv4_block7_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block7_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block7_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block7_concat (Concatenate)	(None, 14, 14, 480)	0	co	co
conv4_block8_0_bn (BatchNormalization)	(None, 14, 14, 480)	1,920	co	
conv4_block8_0_relu (Activation)	(None, 14, 14, 480)	0	co	
conv4_block8_1_conv (Conv2D)	(None, 14, 14, 128)	61,440	co	
conv4_block8_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block8_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block8_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block8_concat (Concatenate)	(None, 14, 14, 512)	0	co	co
conv4_block9_0_bn (BatchNormalization)	(None, 14, 14, 512)	2,048	co	
conv4_block9_0_relu (Activation)	(None, 14, 14, 512)	0	co	
conv4_block9_1_conv (Conv2D)	(None, 14, 14, 128)	65,536	co	
conv4_block9_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block9_1_relu	(None, 14, 14, 128)	0	co	

(Activation)			
conv4_block9_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block9_concat (Concatenate)	(None, 14, 14, 544)	0	co co
conv4_block10_0_bn (BatchNormalization)	(None, 14, 14, 544)	2,176	co
conv4_block10_0_relu (Activation)	(None, 14, 14, 544)	0	co
conv4_block10_1_conv (Conv2D)	(None, 14, 14, 128)	69,632	co
conv4_block10_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block10_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block10_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block10_concat (Concatenate)	(None, 14, 14, 576)	0	co co
conv4_block11_0_bn (BatchNormalization)	(None, 14, 14, 576)	2,304	co
conv4_block11_0_relu (Activation)	(None, 14, 14, 576)	0	co
conv4_block11_1_conv (Conv2D)	(None, 14, 14, 128)	73,728	co
conv4_block11_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block11_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block11_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block11_concat (Concatenate)	(None, 14, 14, 608)	0	co co
conv4_block12_0_bn (BatchNormalization)	(None, 14, 14, 608)	2,432	co
conv4_block12_0_relu (Activation)	(None, 14, 14, 608)	0	co
conv4_block12_1_conv (Conv2D)	(None, 14, 14, 128)	77,824	co
conv4_block12_1_bn	(None, 14, 14, 128)	512	co

(BatchNormalization)				
conv4_block12_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block12_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block12_concat (Concatenate)	(None, 14, 14, 640)	0	co	co
conv4_block13_0_bn (BatchNormalization)	(None, 14, 14, 640)	2,560	co	
conv4_block13_0_relu (Activation)	(None, 14, 14, 640)	0	co	
conv4_block13_1_conv (Conv2D)	(None, 14, 14, 128)	81,920	co	
conv4_block13_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block13_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block13_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block13_concat (Concatenate)	(None, 14, 14, 672)	0	co	co
conv4_block14_0_bn (BatchNormalization)	(None, 14, 14, 672)	2,688	co	
conv4_block14_0_relu (Activation)	(None, 14, 14, 672)	0	co	
conv4_block14_1_conv (Conv2D)	(None, 14, 14, 128)	86,016	co	
conv4_block14_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block14_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block14_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block14_concat (Concatenate)	(None, 14, 14, 704)	0	co	co
conv4_block15_0_bn (BatchNormalization)	(None, 14, 14, 704)	2,816	co	
conv4_block15_0_relu (Activation)	(None, 14, 14, 704)	0	co	
conv4_block15_1_conv	(None, 14, 14, 128)	90,112	co	

(Conv2D)				
conv4_block15_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block15_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block15_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block15_concat (Concatenate)	(None, 14, 14, 736)	0	co	co
conv4_block16_0_bn (BatchNormalization)	(None, 14, 14, 736)	2,944	co	
conv4_block16_0_relu (Activation)	(None, 14, 14, 736)	0	co	
conv4_block16_1_conv (Conv2D)	(None, 14, 14, 128)	94,208	co	
conv4_block16_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block16_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block16_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block16_concat (Concatenate)	(None, 14, 14, 768)	0	co	co
conv4_block17_0_bn (BatchNormalization)	(None, 14, 14, 768)	3,072	co	
conv4_block17_0_relu (Activation)	(None, 14, 14, 768)	0	co	
conv4_block17_1_conv (Conv2D)	(None, 14, 14, 128)	98,304	co	
conv4_block17_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block17_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block17_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block17_concat (Concatenate)	(None, 14, 14, 800)	0	co	co
conv4_block18_0_bn (BatchNormalization)	(None, 14, 14, 800)	3,200	co	
conv4_block18_0_relu	(None, 14, 14, 800)	0	co	

(Activation)			
conv4_block18_1_conv (Conv2D)	(None, 14, 14, 128)	102,400	co
conv4_block18_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block18_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block18_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block18_concat (Concatenate)	(None, 14, 14, 832)	0	co
conv4_block19_0_bn (BatchNormalization)	(None, 14, 14, 832)	3,328	co
conv4_block19_0_relu (Activation)	(None, 14, 14, 832)	0	co
conv4_block19_1_conv (Conv2D)	(None, 14, 14, 128)	106,496	co
conv4_block19_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block19_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block19_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block19_concat (Concatenate)	(None, 14, 14, 864)	0	co
conv4_block20_0_bn (BatchNormalization)	(None, 14, 14, 864)	3,456	co
conv4_block20_0_relu (Activation)	(None, 14, 14, 864)	0	co
conv4_block20_1_conv (Conv2D)	(None, 14, 14, 128)	110,592	co
conv4_block20_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block20_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block20_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block20_concat (Concatenate)	(None, 14, 14, 896)	0	co
conv4_block21_0_bn	(None, 14, 14, 896)	3,584	co

(BatchNormalization)				
conv4_block21_0_relu (Activation)	(None, 14, 14, 896)	0	co	
conv4_block21_1_conv (Conv2D)	(None, 14, 14, 128)	114,688	co	
conv4_block21_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block21_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block21_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block21_concat (Concatenate)	(None, 14, 14, 928)	0	co	co
conv4_block22_0_bn (BatchNormalization)	(None, 14, 14, 928)	3,712	co	
conv4_block22_0_relu (Activation)	(None, 14, 14, 928)	0	co	
conv4_block22_1_conv (Conv2D)	(None, 14, 14, 128)	118,784	co	
conv4_block22_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block22_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block22_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block22_concat (Concatenate)	(None, 14, 14, 960)	0	co	co
conv4_block23_0_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	co	
conv4_block23_0_relu (Activation)	(None, 14, 14, 960)	0	co	
conv4_block23_1_conv (Conv2D)	(None, 14, 14, 128)	122,880	co	
conv4_block23_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block23_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block23_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block23_concat	(None, 14, 14, 992)	0	co	

(Concatenate)			co
conv4_block24_0_bn (BatchNormalization)	(None, 14, 14, 992)	3,968	co
conv4_block24_0_relu (Activation)	(None, 14, 14, 992)	0	co
conv4_block24_1_conv (Conv2D)	(None, 14, 14, 128)	126,976	co
conv4_block24_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block24_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block24_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block24_concat (Concatenate)	(None, 14, 14, 1024)	0	co
pool4_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
pool4_relu (Activation)	(None, 14, 14, 1024)	0	po
pool4_conv (Conv2D)	(None, 14, 14, 512)	524,288	po
pool4_pool (AveragePooling2D)	(None, 7, 7, 512)	0	po
conv5_block1_0_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	po
conv5_block1_0_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block1_1_conv (Conv2D)	(None, 7, 7, 128)	65,536	co
conv5_block1_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block1_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block1_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block1_concat (Concatenate)	(None, 7, 7, 544)	0	po
conv5_block1_concat (Concatenate)	(None, 7, 7, 544)	0	co
conv5_block2_0_bn (BatchNormalization)	(None, 7, 7, 544)	2,176	co
conv5_block2_0_relu (Activation)	(None, 7, 7, 544)	0	co

conv5_block2_1_conv (Conv2D)	(None, 7, 7, 128)	69,632	co
conv5_block2_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block2_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block2_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block2_concat (Concatenate)	(None, 7, 7, 576)	0	co co
conv5_block3_0_bn (BatchNormalization)	(None, 7, 7, 576)	2,304	co
conv5_block3_0_relu (Activation)	(None, 7, 7, 576)	0	co
conv5_block3_1_conv (Conv2D)	(None, 7, 7, 128)	73,728	co
conv5_block3_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block3_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block3_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block3_concat (Concatenate)	(None, 7, 7, 608)	0	co co
conv5_block4_0_bn (BatchNormalization)	(None, 7, 7, 608)	2,432	co
conv5_block4_0_relu (Activation)	(None, 7, 7, 608)	0	co
conv5_block4_1_conv (Conv2D)	(None, 7, 7, 128)	77,824	co
conv5_block4_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block4_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block4_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block4_concat (Concatenate)	(None, 7, 7, 640)	0	co co
conv5_block5_0_bn (BatchNormalization)	(None, 7, 7, 640)	2,560	co

conv5_block5_0_relu (Activation)	(None, 7, 7, 640)	0	co
conv5_block5_1_conv (Conv2D)	(None, 7, 7, 128)	81,920	co
conv5_block5_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block5_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block5_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block5_concat (Concatenate)	(None, 7, 7, 672)	0	co co
conv5_block6_0_bn (BatchNormalization)	(None, 7, 7, 672)	2,688	co
conv5_block6_0_relu (Activation)	(None, 7, 7, 672)	0	co
conv5_block6_1_conv (Conv2D)	(None, 7, 7, 128)	86,016	co
conv5_block6_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block6_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block6_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block6_concat (Concatenate)	(None, 7, 7, 704)	0	co co
conv5_block7_0_bn (BatchNormalization)	(None, 7, 7, 704)	2,816	co
conv5_block7_0_relu (Activation)	(None, 7, 7, 704)	0	co
conv5_block7_1_conv (Conv2D)	(None, 7, 7, 128)	90,112	co
conv5_block7_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block7_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block7_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block7_concat (Concatenate)	(None, 7, 7, 736)	0	co co

conv5_block8_0_bn (BatchNormalization)	(None, 7, 7, 736)	2,944	co
conv5_block8_0_relu (Activation)	(None, 7, 7, 736)	0	co
conv5_block8_1_conv (Conv2D)	(None, 7, 7, 128)	94,208	co
conv5_block8_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block8_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block8_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block8_concat (Concatenate)	(None, 7, 7, 768)	0	co co
conv5_block9_0_bn (BatchNormalization)	(None, 7, 7, 768)	3,072	co
conv5_block9_0_relu (Activation)	(None, 7, 7, 768)	0	co
conv5_block9_1_conv (Conv2D)	(None, 7, 7, 128)	98,304	co
conv5_block9_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block9_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block9_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block9_concat (Concatenate)	(None, 7, 7, 800)	0	co co
conv5_block10_0_bn (BatchNormalization)	(None, 7, 7, 800)	3,200	co
conv5_block10_0_relu (Activation)	(None, 7, 7, 800)	0	co
conv5_block10_1_conv (Conv2D)	(None, 7, 7, 128)	102,400	co
conv5_block10_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block10_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block10_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co

conv5_block10_concat (Concatenate)	(None, 7, 7, 832)	0	co co
conv5_block11_0_bn (BatchNormalization)	(None, 7, 7, 832)	3,328	co
conv5_block11_0_relu (Activation)	(None, 7, 7, 832)	0	co
conv5_block11_1_conv (Conv2D)	(None, 7, 7, 128)	106,496	co
conv5_block11_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block11_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block11_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block11_concat (Concatenate)	(None, 7, 7, 864)	0	co co
conv5_block12_0_bn (BatchNormalization)	(None, 7, 7, 864)	3,456	co
conv5_block12_0_relu (Activation)	(None, 7, 7, 864)	0	co
conv5_block12_1_conv (Conv2D)	(None, 7, 7, 128)	110,592	co
conv5_block12_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block12_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block12_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block12_concat (Concatenate)	(None, 7, 7, 896)	0	co co
conv5_block13_0_bn (BatchNormalization)	(None, 7, 7, 896)	3,584	co
conv5_block13_0_relu (Activation)	(None, 7, 7, 896)	0	co
conv5_block13_1_conv (Conv2D)	(None, 7, 7, 128)	114,688	co
conv5_block13_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block13_1_relu (Activation)	(None, 7, 7, 128)	0	co

conv5_block13_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block13_concat (Concatenate)	(None, 7, 7, 928)	0	co co
conv5_block14_0_bn (BatchNormalization)	(None, 7, 7, 928)	3,712	co
conv5_block14_0_relu (Activation)	(None, 7, 7, 928)	0	co
conv5_block14_1_conv (Conv2D)	(None, 7, 7, 128)	118,784	co
conv5_block14_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block14_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block14_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block14_concat (Concatenate)	(None, 7, 7, 960)	0	co co
conv5_block15_0_bn (BatchNormalization)	(None, 7, 7, 960)	3,840	co
conv5_block15_0_relu (Activation)	(None, 7, 7, 960)	0	co
conv5_block15_1_conv (Conv2D)	(None, 7, 7, 128)	122,880	co
conv5_block15_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block15_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block15_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block15_concat (Concatenate)	(None, 7, 7, 992)	0	co co
conv5_block16_0_bn (BatchNormalization)	(None, 7, 7, 992)	3,968	co
conv5_block16_0_relu (Activation)	(None, 7, 7, 992)	0	co
conv5_block16_1_conv (Conv2D)	(None, 7, 7, 128)	126,976	co
conv5_block16_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co

conv5_block16_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block16_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block16_concat (Concatenate)	(None, 7, 7, 1024)	0	co co
bn (BatchNormalization)	(None, 7, 7, 1024)	4,096	co
relu (Activation)	(None, 7, 7, 1024)	0	bn
reshape_12 (Reshape)	(None, 49, 1024)	0	re
multi_head_attention_6 (MultiHeadAttention)	(None, 49, 1024)	33,580,032	re re
reshape_13 (Reshape)	(None, 7, 7, 1024)	0	mu
gaussian_noise_12 (GaussianNoise)	(None, 7, 7, 1024)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 1024)	0	ga
dense_12 (Dense)	(None, 512)	524,800	gl
gaussian_noise_13 (GaussianNoise)	(None, 512)	0	de
dropout_13 (Dropout)	(None, 512)	0	ga
dense_13 (Dense)	(None, 1)	513	dr

Total params: 41,142,849 (156.95 MB)

Trainable params: 34,105,345 (130.10 MB)

Non-trainable params: 7,037,504 (26.85 MB)

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

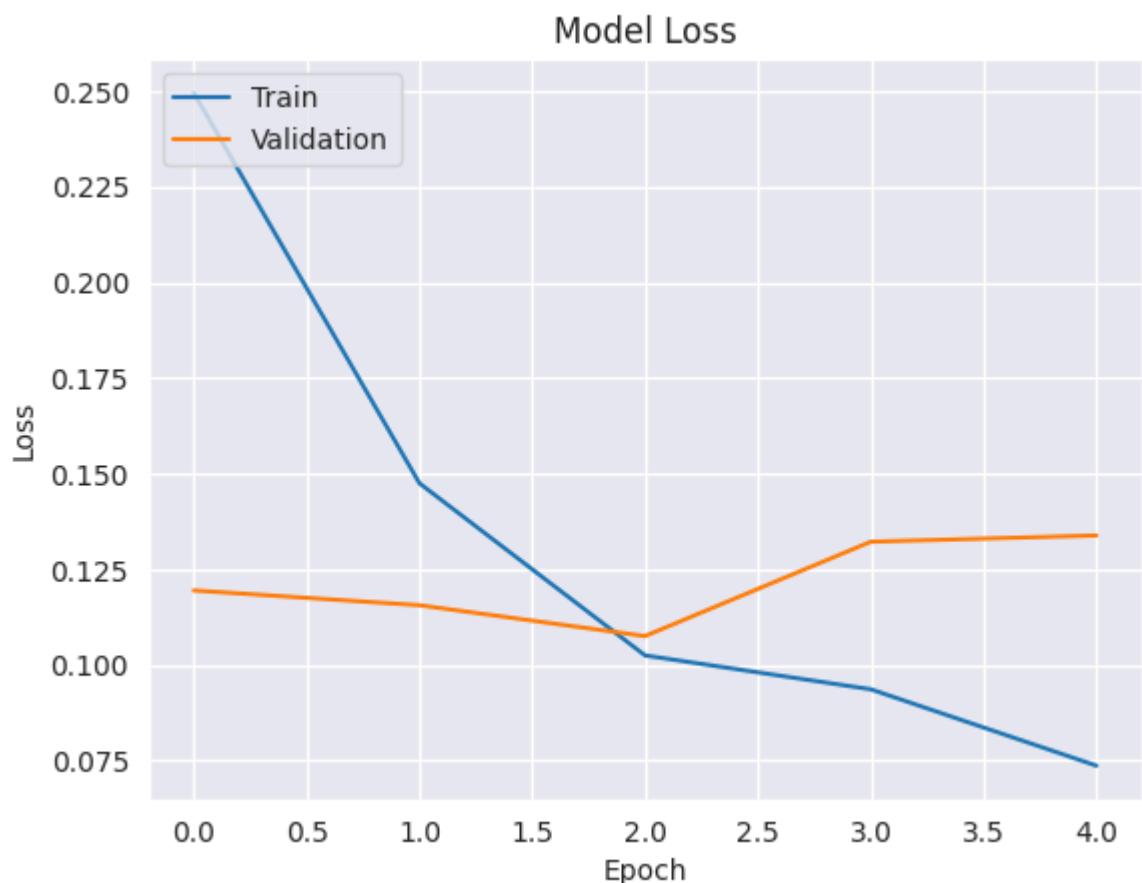
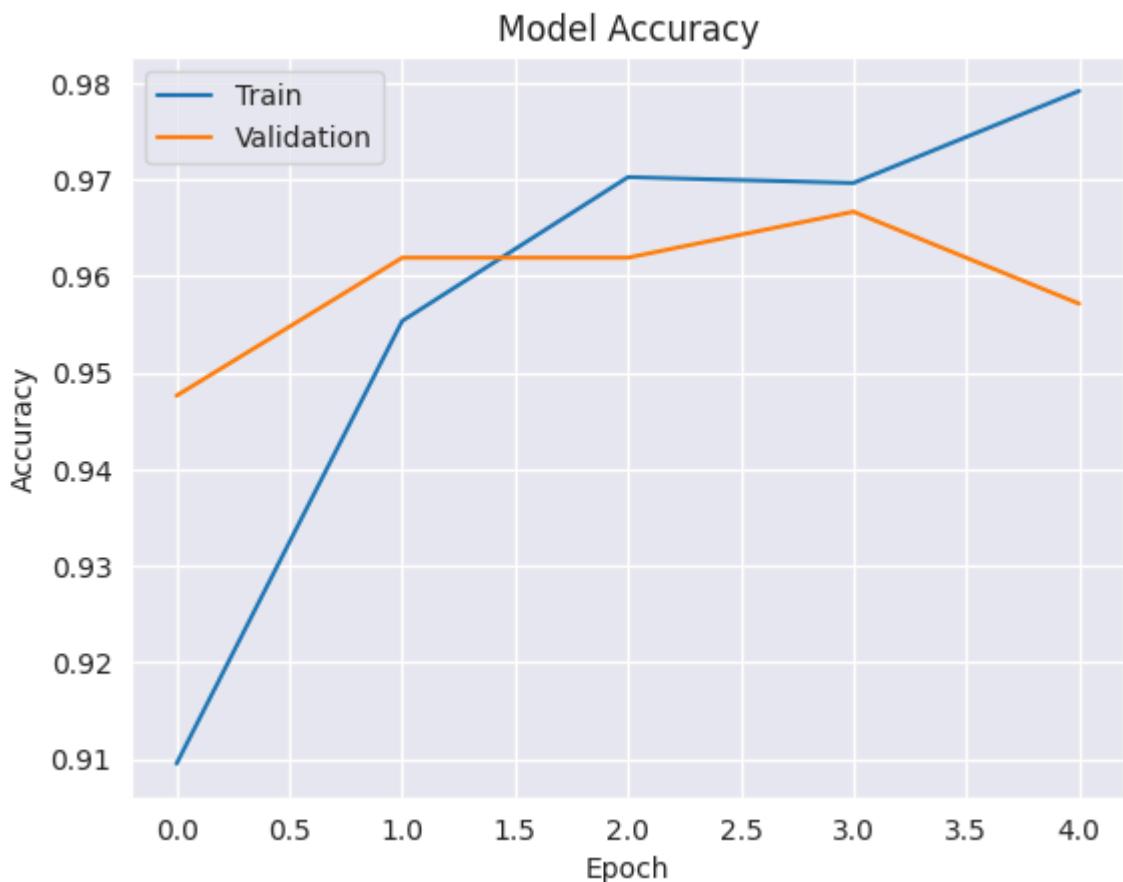
```
Epoch 1/5
105/105 266s 2s/step - accuracy: 0.8666 - loss: 0.3274 - val
_accuracy: 0.9476 - val_loss: 0.1195
Epoch 2/5
105/105 242s 2s/step - accuracy: 0.9480 - loss: 0.1554 - val
_accuracy: 0.9619 - val_loss: 0.1156
Epoch 3/5
105/105 242s 2s/step - accuracy: 0.9603 - loss: 0.1179 - val
_accuracy: 0.9619 - val_loss: 0.1075
Epoch 4/5
105/105 246s 2s/step - accuracy: 0.9692 - loss: 0.0963 - val
_accuracy: 0.9667 - val_loss: 0.1322
Epoch 5/5
105/105 244s 2s/step - accuracy: 0.9794 - loss: 0.0907 - val
_accuracy: 0.9571 - val_loss: 0.1338
```

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time DenseNet121 => {inference_time:.4f} seconds")
```

```
Inference time DenseNet121 => 1241.1363 seconds
```

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



```
In [ ]: test_labels = test_gen_new.classes
predictions = cnn_model.predict(test_gen_new)
predicted_labels = (predictions > 0.5).astype(int).flatten()
```

```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list())
print(Fore.BLUE + "Report for DenseNet Model => ")
print(report)
```

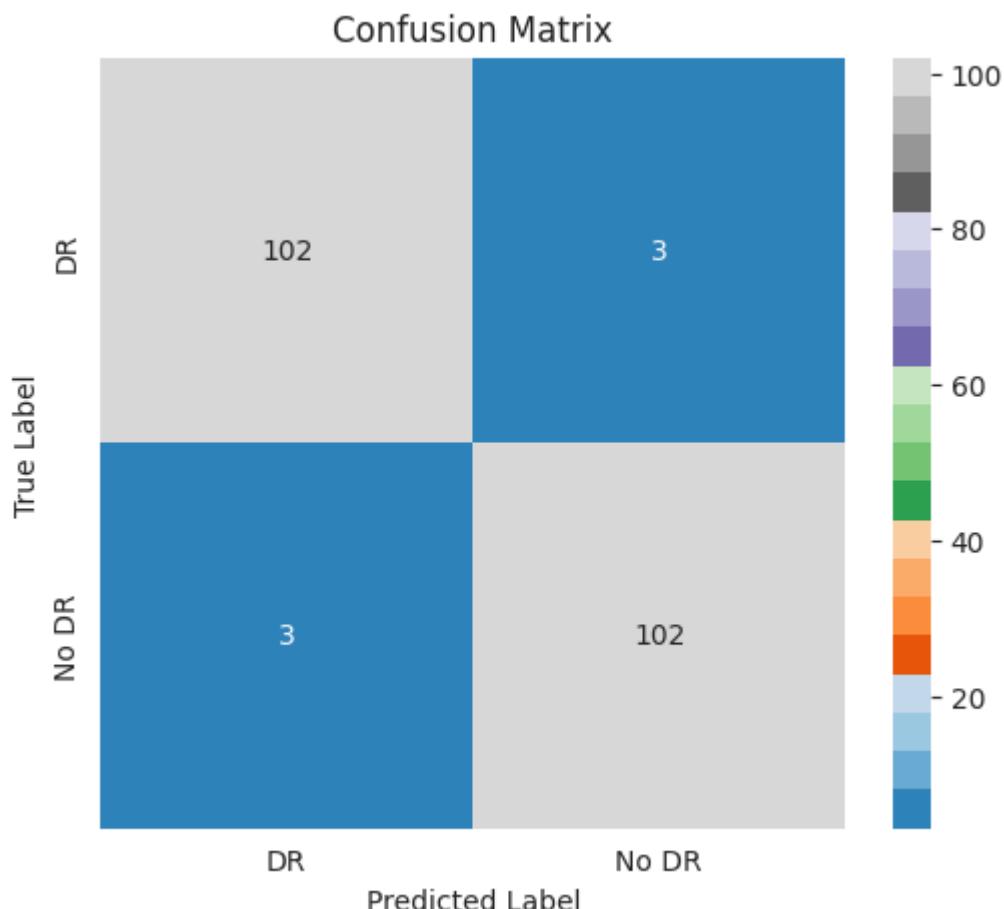
```
Report for DenseNet Model =>
      precision    recall  f1-score   support

          0       0.97     0.97     0.97     105
          1       0.97     0.97     0.97     105

   accuracy                           0.97     210
 macro avg       0.97     0.97     0.97     210
weighted avg     0.97     0.97     0.97     210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)

plt.figure(figsize=(6, 5))
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='tab20c', xticklabels=['DR',
plt.xlabel('Predicted Label')
plt.ylabel('True Label')
plt.title('Confusion Matrix')
plt.show()
```



EfficientNetB0 -->

```
In [ ]: def create_efficientnetB0_model(input_shape):
    inputs = Input(shape=input_shape)
```

```
base_model = EfficientNetB0(weights='imagenet', input_tensor=inputs, include_top=False)

for layer in base_model.layers:
    layer.trainable = False

x = base_model.output

height, width, channels = 7, 7, 1280
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='relu')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

input_shape = (224, 224, 3)

cnn_model = create_efficientnetB0_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                  loss='binary_crossentropy',
                  metrics=['accuracy'])
```

Downloading data from https://storage.googleapis.com/keras-applications/efficientnetb0_notop.h5
16705208/16705208 ————— 0s 0us/step

In []: `cnn_model.summary()`

Model: "functional_7"

Layer (type)	Output Shape	Param #	Co
input_layer_7 (InputLayer)	(None, 224, 224, 3)	0	-
rescaling (Rescaling)	(None, 224, 224, 3)	0	in
normalization (Normalization)	(None, 224, 224, 3)	7	re
rescaling_1 (Rescaling)	(None, 224, 224, 3)	0	no
stem_conv_pad (ZeroPadding2D)	(None, 225, 225, 3)	0	re
stem_conv (Conv2D)	(None, 112, 112, 32)	864	st
stem_bn (BatchNormalization)	(None, 112, 112, 32)	128	st
stem_activation (Activation)	(None, 112, 112, 32)	0	st
block1a_dwconv (DepthwiseConv2D)	(None, 112, 112, 32)	288	st
block1a_bn (BatchNormalization)	(None, 112, 112, 32)	128	bl
block1a_activation (Activation)	(None, 112, 112, 32)	0	bl
block1a_se_squeeze (GlobalAveragePooling2D)	(None, 32)	0	bl
block1a_se_reshape (Reshape)	(None, 1, 1, 32)	0	bl
block1a_se_reduce (Conv2D)	(None, 1, 1, 8)	264	bl
block1a_se_expand (Conv2D)	(None, 1, 1, 32)	288	bl
block1a_se_excite (Multiply)	(None, 112, 112, 32)	0	bl
block1a_project_conv (Conv2D)	(None, 112, 112, 16)	512	bl
block1a_project_bn (BatchNormalization)	(None, 112, 112, 16)	64	bl
block2a_expand_conv (Conv2D)	(None, 112, 112, 96)	1,536	bl
block2a_expand_bn (BatchNormalization)	(None, 112, 112, 96)	384	bl

block2a_expand_activation (Activation)	(None, 112, 112, 96)	0	b1
block2a_dwconv_pad (ZeroPadding2D)	(None, 113, 113, 96)	0	b1
block2a_dwconv (DepthwiseConv2D)	(None, 56, 56, 96)	864	b1
block2a_bn (BatchNormalization)	(None, 56, 56, 96)	384	b1
block2a_activation (Activation)	(None, 56, 56, 96)	0	b1
block2a_se_squeeze (GlobalAveragePooling2D)	(None, 96)	0	b1
block2a_se_reshape (Reshape)	(None, 1, 1, 96)	0	b1
block2a_se_reduce (Conv2D)	(None, 1, 1, 4)	388	b1
block2a_se_expand (Conv2D)	(None, 1, 1, 96)	480	b1
block2a_se_excite (Multiply)	(None, 56, 56, 96)	0	b1
block2a_project_conv (Conv2D)	(None, 56, 56, 24)	2,304	b1
block2a_project_bn (BatchNormalization)	(None, 56, 56, 24)	96	b1
block2b_expand_conv (Conv2D)	(None, 56, 56, 144)	3,456	b1
block2b_expand_bn (BatchNormalization)	(None, 56, 56, 144)	576	b1
block2b_expand_activation (Activation)	(None, 56, 56, 144)	0	b1
block2b_dwconv (DepthwiseConv2D)	(None, 56, 56, 144)	1,296	b1
block2b_bn (BatchNormalization)	(None, 56, 56, 144)	576	b1
block2b_activation (Activation)	(None, 56, 56, 144)	0	b1
block2b_se_squeeze (GlobalAveragePooling2D)	(None, 144)	0	b1
block2b_se_reshape (Reshape)	(None, 1, 1, 144)	0	b1

block2b_se_reduce (Conv2D)	(None, 1, 1, 6)	870	bl
block2b_se_expand (Conv2D)	(None, 1, 1, 144)	1,008	bl
block2b_se_excite (Multiply)	(None, 56, 56, 144)	0	bl bl
block2b_project_conv (Conv2D)	(None, 56, 56, 24)	3,456	bl
block2b_project_bn (BatchNormalization)	(None, 56, 56, 24)	96	bl
block2b_drop (Dropout)	(None, 56, 56, 24)	0	bl
block2b_add (Add)	(None, 56, 56, 24)	0	bl bl
block3a_expand_conv (Conv2D)	(None, 56, 56, 144)	3,456	bl
block3a_expand_bn (BatchNormalization)	(None, 56, 56, 144)	576	bl
block3a_expand_activation (Activation)	(None, 56, 56, 144)	0	bl
block3a_dwconv_pad (ZeroPadding2D)	(None, 59, 59, 144)	0	bl
block3a_dwconv (DepthwiseConv2D)	(None, 28, 28, 144)	3,600	bl
block3a_bn (BatchNormalization)	(None, 28, 28, 144)	576	bl
block3a_activation (Activation)	(None, 28, 28, 144)	0	bl
block3a_se_squeeze (GlobalAveragePooling2D)	(None, 144)	0	bl
block3a_se_reshape (Reshape)	(None, 1, 1, 144)	0	bl
block3a_se_reduce (Conv2D)	(None, 1, 1, 6)	870	bl
block3a_se_expand (Conv2D)	(None, 1, 1, 144)	1,008	bl
block3a_se_excite (Multiply)	(None, 28, 28, 144)	0	bl bl
block3a_project_conv (Conv2D)	(None, 28, 28, 40)	5,760	bl
block3a_project_bn	(None, 28, 28, 40)	160	bl

(BatchNormalization)				
block3b_expand_conv (Conv2D)	(None, 28, 28, 240)	9,600	b1	
block3b_expand_bn (BatchNormalization)	(None, 28, 28, 240)	960	b1	
block3b_expand_activation (Activation)	(None, 28, 28, 240)	0	b1	
block3b_dwconv (DepthwiseConv2D)	(None, 28, 28, 240)	6,000	b1	
block3b_bn (BatchNormalization)	(None, 28, 28, 240)	960	b1	
block3b_activation (Activation)	(None, 28, 28, 240)	0	b1	
block3b_se_squeeze (GlobalAveragePooling2D)	(None, 240)	0	b1	
block3b_se_reshape (Reshape)	(None, 1, 1, 240)	0	b1	
block3b_se_reduce (Conv2D)	(None, 1, 1, 10)	2,410	b1	
block3b_se_expand (Conv2D)	(None, 1, 1, 240)	2,640	b1	
block3b_se_excite (Multiply)	(None, 28, 28, 240)	0	b1	b1
block3b_project_conv (Conv2D)	(None, 28, 28, 40)	9,600	b1	
block3b_project_bn (BatchNormalization)	(None, 28, 28, 40)	160	b1	
block3b_drop (Dropout)	(None, 28, 28, 40)	0	b1	
block3b_add (Add)	(None, 28, 28, 40)	0	b1	b1
block4a_expand_conv (Conv2D)	(None, 28, 28, 240)	9,600	b1	
block4a_expand_bn (BatchNormalization)	(None, 28, 28, 240)	960	b1	
block4a_expand_activation (Activation)	(None, 28, 28, 240)	0	b1	
block4a_dwconv_pad (ZeroPadding2D)	(None, 29, 29, 240)	0	b1	
block4a_dwconv (DepthwiseConv2D)	(None, 14, 14, 240)	2,160	b1	

block4a_bn (BatchNormalization)	(None, 14, 14, 240)	960	bl
block4a_activation (Activation)	(None, 14, 14, 240)	0	bl
block4a_se_squeeze (GlobalAveragePooling2D)	(None, 240)	0	bl
block4a_se_reshape (Reshape)	(None, 1, 1, 240)	0	bl
block4a_se_reduce (Conv2D)	(None, 1, 1, 10)	2,410	bl
block4a_se_expand (Conv2D)	(None, 1, 1, 240)	2,640	bl
block4a_se_excite (Multiply)	(None, 14, 14, 240)	0	bl bl
block4a_project_conv (Conv2D)	(None, 14, 14, 80)	19,200	bl
block4a_project_bn (BatchNormalization)	(None, 14, 14, 80)	320	bl
block4b_expand_conv (Conv2D)	(None, 14, 14, 480)	38,400	bl
block4b_expand_bn (BatchNormalization)	(None, 14, 14, 480)	1,920	bl
block4b_expand_activation (Activation)	(None, 14, 14, 480)	0	bl
block4b_dwconv (DepthwiseConv2D)	(None, 14, 14, 480)	4,320	bl
block4b_bn (BatchNormalization)	(None, 14, 14, 480)	1,920	bl
block4b_activation (Activation)	(None, 14, 14, 480)	0	bl
block4b_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	bl
block4b_se_reshape (Reshape)	(None, 1, 1, 480)	0	bl
block4b_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	bl
block4b_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	bl
block4b_se_excite (Multiply)	(None, 14, 14, 480)	0	bl bl

block4b_project_conv (Conv2D)	(None, 14, 14, 80)	38,400	bl
block4b_project_bn (BatchNormalization)	(None, 14, 14, 80)	320	bl
block4b_drop (Dropout)	(None, 14, 14, 80)	0	bl
block4b_add (Add)	(None, 14, 14, 80)	0	bl bl
block4c_expand_conv (Conv2D)	(None, 14, 14, 480)	38,400	bl
block4c_expand_bn (BatchNormalization)	(None, 14, 14, 480)	1,920	bl
block4c_expand_activation (Activation)	(None, 14, 14, 480)	0	bl
block4c_dwconv (DepthwiseConv2D)	(None, 14, 14, 480)	4,320	bl
block4c_bn (BatchNormalization)	(None, 14, 14, 480)	1,920	bl
block4c_activation (Activation)	(None, 14, 14, 480)	0	bl
block4c_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	bl
block4c_se_reshape (Reshape)	(None, 1, 1, 480)	0	bl
block4c_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	bl
block4c_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	bl
block4c_se_excite (Multiply)	(None, 14, 14, 480)	0	bl bl
block4c_project_conv (Conv2D)	(None, 14, 14, 80)	38,400	bl
block4c_project_bn (BatchNormalization)	(None, 14, 14, 80)	320	bl
block4c_drop (Dropout)	(None, 14, 14, 80)	0	bl
block4c_add (Add)	(None, 14, 14, 80)	0	bl bl
block5a_expand_conv (Conv2D)	(None, 14, 14, 480)	38,400	bl
block5a_expand_bn	(None, 14, 14, 480)	1,920	bl

(BatchNormalization)				
block5a_expand_activation (Activation)	(None, 14, 14, 480)	0	bl	
block5a_dwconv (DepthwiseConv2D)	(None, 14, 14, 480)	12,000	bl	
block5a_bn (BatchNormalization)	(None, 14, 14, 480)	1,920	bl	
block5a_activation (Activation)	(None, 14, 14, 480)	0	bl	
block5a_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	bl	
block5a_se_reshape (Reshape)	(None, 1, 1, 480)	0	bl	
block5a_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	bl	
block5a_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	bl	
block5a_se_excite (Multiply)	(None, 14, 14, 480)	0	bl	bl
block5a_project_conv (Conv2D)	(None, 14, 14, 112)	53,760	bl	
block5a_project_bn (BatchNormalization)	(None, 14, 14, 112)	448	bl	
block5b_expand_conv (Conv2D)	(None, 14, 14, 672)	75,264	bl	
block5b_expand_bn (BatchNormalization)	(None, 14, 14, 672)	2,688	bl	
block5b_expand_activation (Activation)	(None, 14, 14, 672)	0	bl	
block5b_dwconv (DepthwiseConv2D)	(None, 14, 14, 672)	16,800	bl	
block5b_bn (BatchNormalization)	(None, 14, 14, 672)	2,688	bl	
block5b_activation (Activation)	(None, 14, 14, 672)	0	bl	
block5b_se_squeeze (GlobalAveragePooling2D)	(None, 672)	0	bl	
block5b_se_reshape (Reshape)	(None, 1, 1, 672)	0	bl	
block5b_se_reduce	(None, 1, 1, 28)	18,844	bl	

(Conv2D)				
block5b_se_expand (Conv2D)	(None, 1, 1, 672)	19,488	bl	
block5b_se_excite (Multiply)	(None, 14, 14, 672)	0	bl	bl
block5b_project_conv (Conv2D)	(None, 14, 14, 112)	75,264	bl	
block5b_project_bn (BatchNormalization)	(None, 14, 14, 112)	448	bl	
block5b_drop (Dropout)	(None, 14, 14, 112)	0	bl	
block5b_add (Add)	(None, 14, 14, 112)	0	bl	bl
block5c_expand_conv (Conv2D)	(None, 14, 14, 672)	75,264	bl	
block5c_expand_bn (BatchNormalization)	(None, 14, 14, 672)	2,688	bl	
block5c_expand_activation (Activation)	(None, 14, 14, 672)	0	bl	
block5c_dwconv (DepthwiseConv2D)	(None, 14, 14, 672)	16,800	bl	
block5c_bn (BatchNormalization)	(None, 14, 14, 672)	2,688	bl	
block5c_activation (Activation)	(None, 14, 14, 672)	0	bl	
block5c_se_squeeze (GlobalAveragePooling2D)	(None, 672)	0	bl	
block5c_se_reshape (Reshape)	(None, 1, 1, 672)	0	bl	
block5c_se_reduce (Conv2D)	(None, 1, 1, 28)	18,844	bl	
block5c_se_expand (Conv2D)	(None, 1, 1, 672)	19,488	bl	
block5c_se_excite (Multiply)	(None, 14, 14, 672)	0	bl	bl
block5c_project_conv (Conv2D)	(None, 14, 14, 112)	75,264	bl	
block5c_project_bn (BatchNormalization)	(None, 14, 14, 112)	448	bl	
block5c_drop (Dropout)	(None, 14, 14, 112)	0	bl	

block5c_add (Add)	(None, 14, 14, 112)	0	b1 b1
block6a_expand_conv (Conv2D)	(None, 14, 14, 672)	75,264	b1
block6a_expand_bn (BatchNormalization)	(None, 14, 14, 672)	2,688	b1
block6a_expand_activation (Activation)	(None, 14, 14, 672)	0	b1
block6a_dwconv_pad (ZeroPadding2D)	(None, 17, 17, 672)	0	b1
block6a_dwconv (DepthwiseConv2D)	(None, 7, 7, 672)	16,800	b1
block6a_bn (BatchNormalization)	(None, 7, 7, 672)	2,688	b1
block6a_activation (Activation)	(None, 7, 7, 672)	0	b1
block6a_se_squeeze (GlobalAveragePooling2D)	(None, 672)	0	b1
block6a_se_reshape (Reshape)	(None, 1, 1, 672)	0	b1
block6a_se_reduce (Conv2D)	(None, 1, 1, 28)	18,844	b1
block6a_se_expand (Conv2D)	(None, 1, 1, 672)	19,488	b1
block6a_se_excite (Multiply)	(None, 7, 7, 672)	0	b1 b1
block6a_project_conv (Conv2D)	(None, 7, 7, 192)	129,024	b1
block6a_project_bn (BatchNormalization)	(None, 7, 7, 192)	768	b1
block6b_expand_conv (Conv2D)	(None, 7, 7, 1152)	221,184	b1
block6b_expand_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608	b1
block6b_expand_activation (Activation)	(None, 7, 7, 1152)	0	b1
block6b_dwconv (DepthwiseConv2D)	(None, 7, 7, 1152)	28,800	b1
block6b_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608	b1

block6b_activation (Activation)	(None, 7, 7, 1152)	0	b1
block6b_se_squeeze (GlobalAveragePooling2D)	(None, 1152)	0	b1
block6b_se_reshape (Reshape)	(None, 1, 1, 1152)	0	b1
block6b_se_reduce (Conv2D)	(None, 1, 1, 48)	55,344	b1
block6b_se_expand (Conv2D)	(None, 1, 1, 1152)	56,448	b1
block6b_se_excite (Multiply)	(None, 7, 7, 1152)	0	b1 b1
block6b_project_conv (Conv2D)	(None, 7, 7, 192)	221,184	b1
block6b_project_bn (BatchNormalization)	(None, 7, 7, 192)	768	b1
block6b_drop (Dropout)	(None, 7, 7, 192)	0	b1
block6b_add (Add)	(None, 7, 7, 192)	0	b1 b1
block6c_expand_conv (Conv2D)	(None, 7, 7, 1152)	221,184	b1
block6c_expand_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608	b1
block6c_expand_activation (Activation)	(None, 7, 7, 1152)	0	b1
block6c_dwconv (DepthwiseConv2D)	(None, 7, 7, 1152)	28,800	b1
block6c_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608	b1
block6c_activation (Activation)	(None, 7, 7, 1152)	0	b1
block6c_se_squeeze (GlobalAveragePooling2D)	(None, 1152)	0	b1
block6c_se_reshape (Reshape)	(None, 1, 1, 1152)	0	b1
block6c_se_reduce (Conv2D)	(None, 1, 1, 48)	55,344	b1
block6c_se_expand (Conv2D)	(None, 1, 1, 1152)	56,448	b1
block6c_se_excite	(None, 7, 7, 1152)	0	b1

(Multiply)				b1
block6c_project_conv (Conv2D)	(None, 7, 7, 192)	221,184		b1
block6c_project_bn (BatchNormalization)	(None, 7, 7, 192)	768		b1
block6c_drop (Dropout)	(None, 7, 7, 192)	0		b1
block6c_add (Add)	(None, 7, 7, 192)	0	b1	b1
block6d_expand_conv (Conv2D)	(None, 7, 7, 1152)	221,184		b1
block6d_expand_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608		b1
block6d_expand_activation (Activation)	(None, 7, 7, 1152)	0	b1	
block6d_dwconv (DepthwiseConv2D)	(None, 7, 7, 1152)	28,800		b1
block6d_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608		b1
block6d_activation (Activation)	(None, 7, 7, 1152)	0	b1	
block6d_se_squeeze (GlobalAveragePooling2D)	(None, 1152)	0	b1	
block6d_se_reshape (Reshape)	(None, 1, 1, 1152)	0	b1	
block6d_se_reduce (Conv2D)	(None, 1, 1, 48)	55,344		b1
block6d_se_expand (Conv2D)	(None, 1, 1, 1152)	56,448		b1
block6d_se_excite (Multiply)	(None, 7, 7, 1152)	0	b1	b1
block6d_project_conv (Conv2D)	(None, 7, 7, 192)	221,184		b1
block6d_project_bn (BatchNormalization)	(None, 7, 7, 192)	768		b1
block6d_drop (Dropout)	(None, 7, 7, 192)	0	b1	
block6d_add (Add)	(None, 7, 7, 192)	0	b1	b1
block7a_expand_conv (Conv2D)	(None, 7, 7, 1152)	221,184		b1

block7a_expand_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608	bl
block7a_expand_activation (Activation)	(None, 7, 7, 1152)	0	bl
block7a_dwconv (DepthwiseConv2D)	(None, 7, 7, 1152)	10,368	bl
block7a_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608	bl
block7a_activation (Activation)	(None, 7, 7, 1152)	0	bl
block7a_se_squeeze (GlobalAveragePooling2D)	(None, 1152)	0	bl
block7a_se_reshape (Reshape)	(None, 1, 1, 1152)	0	bl
block7a_se_reduce (Conv2D)	(None, 1, 1, 48)	55,344	bl
block7a_se_expand (Conv2D)	(None, 1, 1, 1152)	56,448	bl
block7a_se_excite (Multiply)	(None, 7, 7, 1152)	0	bl bl
block7a_project_conv (Conv2D)	(None, 7, 7, 320)	368,640	bl
block7a_project_bn (BatchNormalization)	(None, 7, 7, 320)	1,280	bl
top_conv (Conv2D)	(None, 7, 7, 1280)	409,600	bl
top_bn (BatchNormalization)	(None, 7, 7, 1280)	5,120	to
top_activation (Activation)	(None, 7, 7, 1280)	0	to
reshape_14 (Reshape)	(None, 49, 1280)	0	to
multi_head_attention_7 (MultiHeadAttention)	(None, 49, 1280)	52,460,800	re re
reshape_15 (Reshape)	(None, 7, 7, 1280)	0	mu
gaussian_noise_14 (GaussianNoise)	(None, 7, 7, 1280)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 1280)	0	ga
dense_14 (Dense)	(None, 512)	655,872	gl
gaussian_noise_15	(None, 512)	0	de

(GaussianNoise)			
dropout_15 (Dropout)	(None, 512)	0	ga
dense_15 (Dense)	(None, 1)	513	dr

Total params: 57,166,756 (218.07 MB)
Trainable params: 53,117,185 (202.63 MB)
Non-trainable params: 4,049,571 (15.45 MB)

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

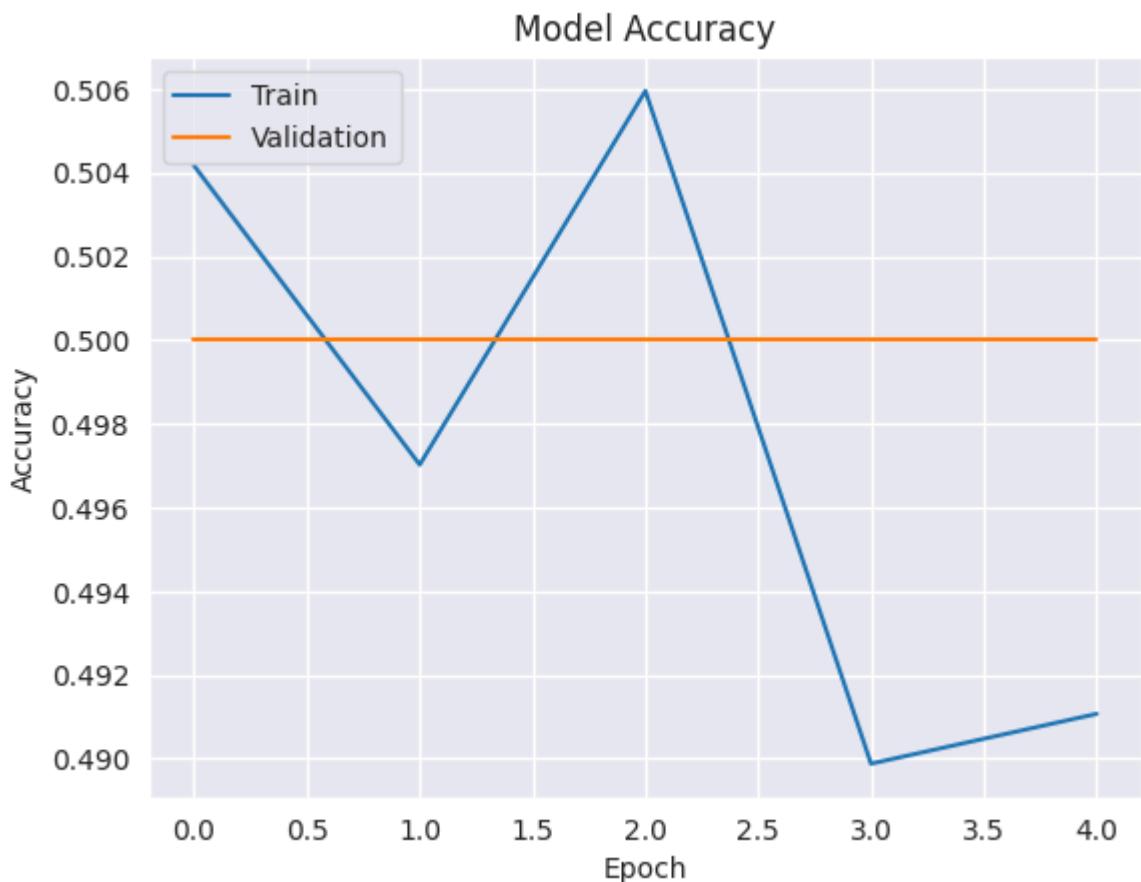
Epoch 1/5
105/105 302s 3s/step - accuracy: 0.4959 - loss: 0.7343 - val_accuracy: 0.5000 - val_loss: 0.7002
Epoch 2/5
105/105 279s 3s/step - accuracy: 0.5060 - loss: 0.7218 - val_accuracy: 0.5000 - val_loss: 0.7017
Epoch 3/5
105/105 278s 3s/step - accuracy: 0.5083 - loss: 0.7180 - val_accuracy: 0.5000 - val_loss: 0.7058
Epoch 4/5
105/105 279s 3s/step - accuracy: 0.4734 - loss: 0.7389 - val_accuracy: 0.5000 - val_loss: 0.7224
Epoch 5/5
105/105 272s 3s/step - accuracy: 0.4993 - loss: 0.7211 - val_accuracy: 0.5000 - val_loss: 0.7214

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for EfficientNetB0 => {inference_time:.4f} seconds")
```

Inference time for EfficientNetB0 => 1410.7083 seconds

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



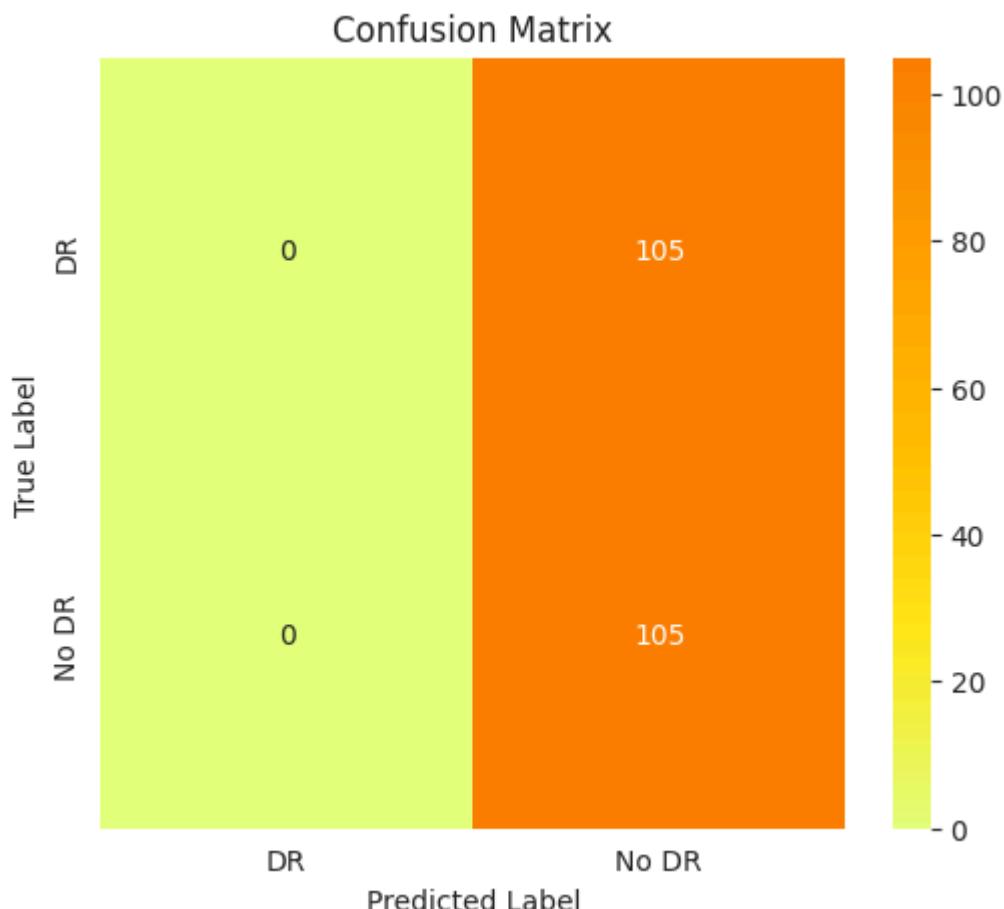
```
In [ ]: test_labels = test_gen_new.classes
predictions = cnn_model.predict(test_gen_new)
predicted_labels = (predictions > 0.5).astype(int).flatten()
```

14/14 ━━━━━━ 18s 1s/step

```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(Fore.BLUE + "Report for EfficientNetB0 Model => ")  
print(report)
```

```
Report for EfficientNetB0 Model =>  
precision recall f1-score support  
  
0 0.00 0.00 0.00 105  
1 0.50 1.00 0.67 105  
  
accuracy 0.50 210  
macro avg 0.25 0.50 0.33 210  
weighted avg 0.25 0.50 0.33 210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)  
  
plt.figure(figsize=(6, 5))  
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='Wistia', xticklabels=['DR',  
plt.xlabel('Predicted Label')  
plt.ylabel('True Label')  
plt.title('Confusion Matrix')  
plt.show()
```



EfficientNetB7 -->

```
In [ ]: def create_efficientnetB7_model(input_shape):  
    inputs = Input(shape=input_shape)
```

```
base_model = EfficientNetB7(weights='imagenet', input_tensor=inputs, include_top=False)

for layer in base_model.layers:
    layer.trainable = False

x = base_model.output

height, width, channels = 7, 7, 2560
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='softmax')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

input_shape = (224, 224, 3)

cnn_model = create_efficientnetB7_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                  loss='binary_crossentropy',
                  metrics=['accuracy'])
```

Downloading data from https://storage.googleapis.com/keras-applications/efficientnetb7_notop.h5
258076736/258076736 ━━━━━━━━ 1s 0us/step

In []: `cnn_model.summary()`

Model: "functional_8"

Layer (type)	Output Shape	Param #	Co
input_layer_8 (InputLayer)	(None, 224, 224, 3)	0	-
rescaling_2 (Rescaling)	(None, 224, 224, 3)	0	in
normalization_1 (Normalization)	(None, 224, 224, 3)	7	re
rescaling_3 (Rescaling)	(None, 224, 224, 3)	0	no
stem_conv_pad (ZeroPadding2D)	(None, 225, 225, 3)	0	re
stem_conv (Conv2D)	(None, 112, 112, 64)	1,728	st
stem_bn (BatchNormalization)	(None, 112, 112, 64)	256	st
stem_activation (Activation)	(None, 112, 112, 64)	0	st
block1a_dwconv (DepthwiseConv2D)	(None, 112, 112, 64)	576	st
block1a_bn (BatchNormalization)	(None, 112, 112, 64)	256	bl
block1a_activation (Activation)	(None, 112, 112, 64)	0	bl
block1a_se_squeeze (GlobalAveragePooling2D)	(None, 64)	0	bl
block1a_se_reshape (Reshape)	(None, 1, 1, 64)	0	bl
block1a_se_reduce (Conv2D)	(None, 1, 1, 16)	1,040	bl
block1a_se_expand (Conv2D)	(None, 1, 1, 64)	1,088	bl
block1a_se_excite (Multiply)	(None, 112, 112, 64)	0	bl
block1a_project_conv (Conv2D)	(None, 112, 112, 32)	2,048	bl
block1a_project_bn (BatchNormalization)	(None, 112, 112, 32)	128	bl
block1b_dwconv (DepthwiseConv2D)	(None, 112, 112, 32)	288	bl
block1b_bn (BatchNormalization)	(None, 112, 112, 32)	128	bl

block1b_activation (Activation)	(None, 112, 112, 32)	0	bl
block1b_se_squeeze (GlobalAveragePooling2D)	(None, 32)	0	bl
block1b_se_reshape (Reshape)	(None, 1, 1, 32)	0	bl
block1b_se_reduce (Conv2D)	(None, 1, 1, 8)	264	bl
block1b_se_expand (Conv2D)	(None, 1, 1, 32)	288	bl
block1b_se_excite (Multiply)	(None, 112, 112, 32)	0	bl bl
block1b_project_conv (Conv2D)	(None, 112, 112, 32)	1,024	bl
block1b_project_bn (BatchNormalization)	(None, 112, 112, 32)	128	bl
block1b_drop (Dropout)	(None, 112, 112, 32)	0	bl
block1b_add (Add)	(None, 112, 112, 32)	0	bl bl
block1c_dwconv (DepthwiseConv2D)	(None, 112, 112, 32)	288	bl
block1c_bn (BatchNormalization)	(None, 112, 112, 32)	128	bl
block1c_activation (Activation)	(None, 112, 112, 32)	0	bl
block1c_se_squeeze (GlobalAveragePooling2D)	(None, 32)	0	bl
block1c_se_reshape (Reshape)	(None, 1, 1, 32)	0	bl
block1c_se_reduce (Conv2D)	(None, 1, 1, 8)	264	bl
block1c_se_expand (Conv2D)	(None, 1, 1, 32)	288	bl
block1c_se_excite (Multiply)	(None, 112, 112, 32)	0	bl bl
block1c_project_conv (Conv2D)	(None, 112, 112, 32)	1,024	bl
block1c_project_bn (BatchNormalization)	(None, 112, 112, 32)	128	bl
block1c_drop (Dropout)	(None, 112, 112, 32)	0	bl

block1c_add (Add)	(None, 112, 112, 32)	0	bl bl
block1d_dwconv (DepthwiseConv2D)	(None, 112, 112, 32)	288	bl
block1d_bn (BatchNormalization)	(None, 112, 112, 32)	128	bl
block1d_activation (Activation)	(None, 112, 112, 32)	0	bl
block1d_se_squeeze (GlobalAveragePooling2D)	(None, 32)	0	bl
block1d_se_reshape (Reshape)	(None, 1, 1, 32)	0	bl
block1d_se_reduce (Conv2D)	(None, 1, 1, 8)	264	bl
block1d_se_expand (Conv2D)	(None, 1, 1, 32)	288	bl
block1d_se_excite (Multiply)	(None, 112, 112, 32)	0	bl bl
block1d_project_conv (Conv2D)	(None, 112, 112, 32)	1,024	bl
block1d_project_bn (BatchNormalization)	(None, 112, 112, 32)	128	bl
block1d_drop (Dropout)	(None, 112, 112, 32)	0	bl
block1d_add (Add)	(None, 112, 112, 32)	0	bl bl
block2a_expand_conv (Conv2D)	(None, 112, 112, 192)	6,144	bl
block2a_expand_bn (BatchNormalization)	(None, 112, 112, 192)	768	bl
block2a_expand_activation (Activation)	(None, 112, 112, 192)	0	bl
block2a_dwconv_pad (ZeroPadding2D)	(None, 113, 113, 192)	0	bl
block2a_dwconv (DepthwiseConv2D)	(None, 56, 56, 192)	1,728	bl
block2a_bn (BatchNormalization)	(None, 56, 56, 192)	768	bl
block2a_activation (Activation)	(None, 56, 56, 192)	0	bl

block2a_se_squeeze (GlobalAveragePooling2D)	(None, 192)	0	b1
block2a_se_reshape (Reshape)	(None, 1, 1, 192)	0	b1
block2a_se_reduce (Conv2D)	(None, 1, 1, 8)	1,544	b1
block2a_se_expand (Conv2D)	(None, 1, 1, 192)	1,728	b1
block2a_se_excite (Multiply)	(None, 56, 56, 192)	0	b1 b1
block2a_project_conv (Conv2D)	(None, 56, 56, 48)	9,216	b1
block2a_project_bn (BatchNormalization)	(None, 56, 56, 48)	192	b1
block2b_expand_conv (Conv2D)	(None, 56, 56, 288)	13,824	b1
block2b_expand_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	b1
block2b_expand_activation (Activation)	(None, 56, 56, 288)	0	b1
block2b_dwconv (DepthwiseConv2D)	(None, 56, 56, 288)	2,592	b1
block2b_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	b1
block2b_activation (Activation)	(None, 56, 56, 288)	0	b1
block2b_se_squeeze (GlobalAveragePooling2D)	(None, 288)	0	b1
block2b_se_reshape (Reshape)	(None, 1, 1, 288)	0	b1
block2b_se_reduce (Conv2D)	(None, 1, 1, 12)	3,468	b1
block2b_se_expand (Conv2D)	(None, 1, 1, 288)	3,744	b1
block2b_se_excite (Multiply)	(None, 56, 56, 288)	0	b1 b1
block2b_project_conv (Conv2D)	(None, 56, 56, 48)	13,824	b1
block2b_project_bn (BatchNormalization)	(None, 56, 56, 48)	192	b1

block2b_drop (Dropout)	(None, 56, 56, 48)	0	b1
block2b_add (Add)	(None, 56, 56, 48)	0	b1 b1
block2c_expand_conv (Conv2D)	(None, 56, 56, 288)	13,824	b1
block2c_expand_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	b1
block2c_expand_activation (Activation)	(None, 56, 56, 288)	0	b1
block2c_dwconv (DepthwiseConv2D)	(None, 56, 56, 288)	2,592	b1
block2c_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	b1
block2c_activation (Activation)	(None, 56, 56, 288)	0	b1
block2c_se_squeeze (GlobalAveragePooling2D)	(None, 288)	0	b1
block2c_se_reshape (Reshape)	(None, 1, 1, 288)	0	b1
block2c_se_reduce (Conv2D)	(None, 1, 1, 12)	3,468	b1
block2c_se_expand (Conv2D)	(None, 1, 1, 288)	3,744	b1
block2c_se_excite (Multiply)	(None, 56, 56, 288)	0	b1 b1
block2c_project_conv (Conv2D)	(None, 56, 56, 48)	13,824	b1
block2c_project_bn (BatchNormalization)	(None, 56, 56, 48)	192	b1
block2c_drop (Dropout)	(None, 56, 56, 48)	0	b1
block2c_add (Add)	(None, 56, 56, 48)	0	b1 b1
block2d_expand_conv (Conv2D)	(None, 56, 56, 288)	13,824	b1
block2d_expand_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	b1
block2d_expand_activation (Activation)	(None, 56, 56, 288)	0	b1
block2d_dwconv (DepthwiseConv2D)	(None, 56, 56, 288)	2,592	b1

block2d_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	bl
block2d_activation (Activation)	(None, 56, 56, 288)	0	bl
block2d_se_squeeze (GlobalAveragePooling2D)	(None, 288)	0	bl
block2d_se_reshape (Reshape)	(None, 1, 1, 288)	0	bl
block2d_se_reduce (Conv2D)	(None, 1, 1, 12)	3,468	bl
block2d_se_expand (Conv2D)	(None, 1, 1, 288)	3,744	bl
block2d_se_excite (Multiply)	(None, 56, 56, 288)	0	bl bl
block2d_project_conv (Conv2D)	(None, 56, 56, 48)	13,824	bl
block2d_project_bn (BatchNormalization)	(None, 56, 56, 48)	192	bl
block2d_drop (Dropout)	(None, 56, 56, 48)	0	bl
block2d_add (Add)	(None, 56, 56, 48)	0	bl bl
block2e_expand_conv (Conv2D)	(None, 56, 56, 288)	13,824	bl
block2e_expand_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	bl
block2e_expand_activation (Activation)	(None, 56, 56, 288)	0	bl
block2e_dwconv (DepthwiseConv2D)	(None, 56, 56, 288)	2,592	bl
block2e_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	bl
block2e_activation (Activation)	(None, 56, 56, 288)	0	bl
block2e_se_squeeze (GlobalAveragePooling2D)	(None, 288)	0	bl
block2e_se_reshape (Reshape)	(None, 1, 1, 288)	0	bl
block2e_se_reduce (Conv2D)	(None, 1, 1, 12)	3,468	bl

block2e_se_expand (Conv2D)	(None, 1, 1, 288)	3,744	bl
block2e_se_excite (Multiply)	(None, 56, 56, 288)	0	bl bl
block2e_project_conv (Conv2D)	(None, 56, 56, 48)	13,824	bl
block2e_project_bn (BatchNormalization)	(None, 56, 56, 48)	192	bl
block2e_drop (Dropout)	(None, 56, 56, 48)	0	bl
block2e_add (Add)	(None, 56, 56, 48)	0	bl bl
block2f_expand_conv (Conv2D)	(None, 56, 56, 288)	13,824	bl
block2f_expand_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	bl
block2f_expand_activation (Activation)	(None, 56, 56, 288)	0	bl
block2f_dwconv (DepthwiseConv2D)	(None, 56, 56, 288)	2,592	bl
block2f_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	bl
block2f_activation (Activation)	(None, 56, 56, 288)	0	bl
block2f_se_squeeze (GlobalAveragePooling2D)	(None, 288)	0	bl
block2f_se_reshape (Reshape)	(None, 1, 1, 288)	0	bl
block2f_se_reduce (Conv2D)	(None, 1, 1, 12)	3,468	bl
block2f_se_expand (Conv2D)	(None, 1, 1, 288)	3,744	bl
block2f_se_excite (Multiply)	(None, 56, 56, 288)	0	bl bl
block2f_project_conv (Conv2D)	(None, 56, 56, 48)	13,824	bl
block2f_project_bn (BatchNormalization)	(None, 56, 56, 48)	192	bl
block2f_drop (Dropout)	(None, 56, 56, 48)	0	bl
block2f_add (Add)	(None, 56, 56, 48)	0	bl bl

block2g_expand_conv (Conv2D)	(None, 56, 56, 288)	13,824	bl
block2g_expand_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	bl
block2g_expand_activation (Activation)	(None, 56, 56, 288)	0	bl
block2g_dwconv (DepthwiseConv2D)	(None, 56, 56, 288)	2,592	bl
block2g_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	bl
block2g_activation (Activation)	(None, 56, 56, 288)	0	bl
block2g_se_squeeze (GlobalAveragePooling2D)	(None, 288)	0	bl
block2g_se_reshape (Reshape)	(None, 1, 1, 288)	0	bl
block2g_se_reduce (Conv2D)	(None, 1, 1, 12)	3,468	bl
block2g_se_expand (Conv2D)	(None, 1, 1, 288)	3,744	bl
block2g_se_excite (Multiply)	(None, 56, 56, 288)	0	bl bl
block2g_project_conv (Conv2D)	(None, 56, 56, 48)	13,824	bl
block2g_project_bn (BatchNormalization)	(None, 56, 56, 48)	192	bl
block2g_drop (Dropout)	(None, 56, 56, 48)	0	bl
block2g_add (Add)	(None, 56, 56, 48)	0	bl bl
block3a_expand_conv (Conv2D)	(None, 56, 56, 288)	13,824	bl
block3a_expand_bn (BatchNormalization)	(None, 56, 56, 288)	1,152	bl
block3a_expand_activation (Activation)	(None, 56, 56, 288)	0	bl
block3a_dwconv_pad (ZeroPadding2D)	(None, 59, 59, 288)	0	bl
block3a_dwconv (DepthwiseConv2D)	(None, 28, 28, 288)	7,200	bl

block3a_bn (BatchNormalization)	(None, 28, 28, 288)	1,152	b1
block3a_activation (Activation)	(None, 28, 28, 288)	0	b1
block3a_se_squeeze (GlobalAveragePooling2D)	(None, 288)	0	b1
block3a_se_reshape (Reshape)	(None, 1, 1, 288)	0	b1
block3a_se_reduce (Conv2D)	(None, 1, 1, 12)	3,468	b1
block3a_se_expand (Conv2D)	(None, 1, 1, 288)	3,744	b1
block3a_se_excite (Multiply)	(None, 28, 28, 288)	0	b1 b1
block3a_project_conv (Conv2D)	(None, 28, 28, 80)	23,040	b1
block3a_project_bn (BatchNormalization)	(None, 28, 28, 80)	320	b1
block3b_expand_conv (Conv2D)	(None, 28, 28, 480)	38,400	b1
block3b_expand_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	b1
block3b_expand_activation (Activation)	(None, 28, 28, 480)	0	b1
block3b_dwconv (DepthwiseConv2D)	(None, 28, 28, 480)	12,000	b1
block3b_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	b1
block3b_activation (Activation)	(None, 28, 28, 480)	0	b1
block3b_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	b1
block3b_se_reshape (Reshape)	(None, 1, 1, 480)	0	b1
block3b_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	b1
block3b_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	b1
block3b_se_excite (Multiply)	(None, 28, 28, 480)	0	b1 b1

block3b_project_conv (Conv2D)	(None, 28, 28, 80)	38,400	b1
block3b_project_bn (BatchNormalization)	(None, 28, 28, 80)	320	b1
block3b_drop (Dropout)	(None, 28, 28, 80)	0	b1
block3b_add (Add)	(None, 28, 28, 80)	0	b1 b1
block3c_expand_conv (Conv2D)	(None, 28, 28, 480)	38,400	b1
block3c_expand_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	b1
block3c_expand_activation (Activation)	(None, 28, 28, 480)	0	b1
block3c_dwconv (DepthwiseConv2D)	(None, 28, 28, 480)	12,000	b1
block3c_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	b1
block3c_activation (Activation)	(None, 28, 28, 480)	0	b1
block3c_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	b1
block3c_se_reshape (Reshape)	(None, 1, 1, 480)	0	b1
block3c_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	b1
block3c_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	b1
block3c_se_excite (Multiply)	(None, 28, 28, 480)	0	b1 b1
block3c_project_conv (Conv2D)	(None, 28, 28, 80)	38,400	b1
block3c_project_bn (BatchNormalization)	(None, 28, 28, 80)	320	b1
block3c_drop (Dropout)	(None, 28, 28, 80)	0	b1
block3c_add (Add)	(None, 28, 28, 80)	0	b1 b1
block3d_expand_conv (Conv2D)	(None, 28, 28, 480)	38,400	b1
block3d_expand_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	b1

block3d_expand_activation (Activation)	(None, 28, 28, 480)	0	bl
block3d_dwconv (DepthwiseConv2D)	(None, 28, 28, 480)	12,000	bl
block3d_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	bl
block3d_activation (Activation)	(None, 28, 28, 480)	0	bl
block3d_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	bl
block3d_se_reshape (Reshape)	(None, 1, 1, 480)	0	bl
block3d_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	bl
block3d_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	bl
block3d_se_excite (Multiply)	(None, 28, 28, 480)	0	bl bl
block3d_project_conv (Conv2D)	(None, 28, 28, 80)	38,400	bl
block3d_project_bn (BatchNormalization)	(None, 28, 28, 80)	320	bl
block3d_drop (Dropout)	(None, 28, 28, 80)	0	bl
block3d_add (Add)	(None, 28, 28, 80)	0	bl bl
block3e_expand_conv (Conv2D)	(None, 28, 28, 480)	38,400	bl
block3e_expand_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	bl
block3e_expand_activation (Activation)	(None, 28, 28, 480)	0	bl
block3e_dwconv (DepthwiseConv2D)	(None, 28, 28, 480)	12,000	bl
block3e_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	bl
block3e_activation (Activation)	(None, 28, 28, 480)	0	bl
block3e_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	bl

block3e_se_reshape (Reshape)	(None, 1, 1, 480)	0	b1
block3e_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	b1
block3e_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	b1
block3e_se_excite (Multiply)	(None, 28, 28, 480)	0	b1 b1
block3e_project_conv (Conv2D)	(None, 28, 28, 80)	38,400	b1
block3e_project_bn (BatchNormalization)	(None, 28, 28, 80)	320	b1
block3e_drop (Dropout)	(None, 28, 28, 80)	0	b1
block3e_add (Add)	(None, 28, 28, 80)	0	b1 b1
block3f_expand_conv (Conv2D)	(None, 28, 28, 480)	38,400	b1
block3f_expand_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	b1
block3f_expand_activation (Activation)	(None, 28, 28, 480)	0	b1
block3f_dwconv (DepthwiseConv2D)	(None, 28, 28, 480)	12,000	b1
block3f_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	b1
block3f_activation (Activation)	(None, 28, 28, 480)	0	b1
block3f_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	b1
block3f_se_reshape (Reshape)	(None, 1, 1, 480)	0	b1
block3f_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	b1
block3f_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	b1
block3f_se_excite (Multiply)	(None, 28, 28, 480)	0	b1 b1
block3f_project_conv (Conv2D)	(None, 28, 28, 80)	38,400	b1
block3f_project_bn	(None, 28, 28, 80)	320	b1

(BatchNormalization)				
block3f_drop (Dropout)	(None, 28, 28, 80)	0	bl	
block3f_add (Add)	(None, 28, 28, 80)	0	bl	
block3g_expand_conv (Conv2D)	(None, 28, 28, 480)	38,400	bl	
block3g_expand_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	bl	
block3g_expand_activation (Activation)	(None, 28, 28, 480)	0	bl	
block3g_dwconv (DepthwiseConv2D)	(None, 28, 28, 480)	12,000	bl	
block3g_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	bl	
block3g_activation (Activation)	(None, 28, 28, 480)	0	bl	
block3g_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	bl	
block3g_se_reshape (Reshape)	(None, 1, 1, 480)	0	bl	
block3g_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	bl	
block3g_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	bl	
block3g_se_excite (Multiply)	(None, 28, 28, 480)	0	bl	
block3g_project_conv (Conv2D)	(None, 28, 28, 80)	38,400	bl	
block3g_project_bn (BatchNormalization)	(None, 28, 28, 80)	320	bl	
block3g_drop (Dropout)	(None, 28, 28, 80)	0	bl	
block3g_add (Add)	(None, 28, 28, 80)	0	bl	
block4a_expand_conv (Conv2D)	(None, 28, 28, 480)	38,400	bl	
block4a_expand_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	bl	
block4a_expand_activation (Activation)	(None, 28, 28, 480)	0	bl	

block4a_dwconv_pad (ZeroPadding2D)	(None, 29, 29, 480)	0	bl
block4a_dwconv (DepthwiseConv2D)	(None, 14, 14, 480)	4,320	bl
block4a_bn (BatchNormalization)	(None, 14, 14, 480)	1,920	bl
block4a_activation (Activation)	(None, 14, 14, 480)	0	bl
block4a_se_squeeze (GlobalAveragePooling2D)	(None, 480)	0	bl
block4a_se_reshape (Reshape)	(None, 1, 1, 480)	0	bl
block4a_se_reduce (Conv2D)	(None, 1, 1, 20)	9,620	bl
block4a_se_expand (Conv2D)	(None, 1, 1, 480)	10,080	bl
block4a_se_excite (Multiply)	(None, 14, 14, 480)	0	bl bl
block4a_project_conv (Conv2D)	(None, 14, 14, 160)	76,800	bl
block4a_project_bn (BatchNormalization)	(None, 14, 14, 160)	640	bl
block4b_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600	bl
block4b_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl
block4b_expand_activation (Activation)	(None, 14, 14, 960)	0	bl
block4b_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	8,640	bl
block4b_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl
block4b_activation (Activation)	(None, 14, 14, 960)	0	bl
block4b_se_squeeze (GlobalAveragePooling2D)	(None, 960)	0	bl
block4b_se_reshape (Reshape)	(None, 1, 1, 960)	0	bl
block4b_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440	bl

block4b_se_expand (Conv2D)	(None, 1, 1, 960)	39,360	b1
block4b_se_excite (Multiply)	(None, 14, 14, 960)	0	b1 b1
block4b_project_conv (Conv2D)	(None, 14, 14, 160)	153,600	b1
block4b_project_bn (BatchNormalization)	(None, 14, 14, 160)	640	b1
block4b_drop (Dropout)	(None, 14, 14, 160)	0	b1
block4b_add (Add)	(None, 14, 14, 160)	0	b1 b1
block4c_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600	b1
block4c_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	b1
block4c_expand_activation (Activation)	(None, 14, 14, 960)	0	b1
block4c_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	8,640	b1
block4c_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	b1
block4c_activation (Activation)	(None, 14, 14, 960)	0	b1
block4c_se_squeeze (GlobalAveragePooling2D)	(None, 960)	0	b1
block4c_se_reshape (Reshape)	(None, 1, 1, 960)	0	b1
block4c_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440	b1
block4c_se_expand (Conv2D)	(None, 1, 1, 960)	39,360	b1
block4c_se_excite (Multiply)	(None, 14, 14, 960)	0	b1 b1
block4c_project_conv (Conv2D)	(None, 14, 14, 160)	153,600	b1
block4c_project_bn (BatchNormalization)	(None, 14, 14, 160)	640	b1
block4c_drop (Dropout)	(None, 14, 14, 160)	0	b1
block4c_add (Add)	(None, 14, 14, 160)	0	b1 b1

block4d_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600	bl
block4d_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl
block4d_expand_activation (Activation)	(None, 14, 14, 960)	0	bl
block4d_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	8,640	bl
block4d_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl
block4d_activation (Activation)	(None, 14, 14, 960)	0	bl
block4d_se_squeeze (GlobalAveragePooling2D)	(None, 960)	0	bl
block4d_se_reshape (Reshape)	(None, 1, 1, 960)	0	bl
block4d_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440	bl
block4d_se_expand (Conv2D)	(None, 1, 1, 960)	39,360	bl
block4d_se_excite (Multiply)	(None, 14, 14, 960)	0	bl bl
block4d_project_conv (Conv2D)	(None, 14, 14, 160)	153,600	bl
block4d_project_bn (BatchNormalization)	(None, 14, 14, 160)	640	bl
block4d_drop (Dropout)	(None, 14, 14, 160)	0	bl
block4d_add (Add)	(None, 14, 14, 160)	0	bl bl
block4e_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600	bl
block4e_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl
block4e_expand_activation (Activation)	(None, 14, 14, 960)	0	bl
block4e_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	8,640	bl
block4e_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl

block4e_activation (Activation)	(None, 14, 14, 960)	0	bl
block4e_se_squeeze (GlobalAveragePooling2D)	(None, 960)	0	bl
block4e_se_reshape (Reshape)	(None, 1, 1, 960)	0	bl
block4e_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440	bl
block4e_se_expand (Conv2D)	(None, 1, 1, 960)	39,360	bl
block4e_se_excite (Multiply)	(None, 14, 14, 960)	0	bl bl
block4e_project_conv (Conv2D)	(None, 14, 14, 160)	153,600	bl
block4e_project_bn (BatchNormalization)	(None, 14, 14, 160)	640	bl
block4e_drop (Dropout)	(None, 14, 14, 160)	0	bl
block4e_add (Add)	(None, 14, 14, 160)	0	bl bl
block4f_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600	bl
block4f_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl
block4f_expand_activation (Activation)	(None, 14, 14, 960)	0	bl
block4f_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	8,640	bl
block4f_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl
block4f_activation (Activation)	(None, 14, 14, 960)	0	bl
block4f_se_squeeze (GlobalAveragePooling2D)	(None, 960)	0	bl
block4f_se_reshape (Reshape)	(None, 1, 1, 960)	0	bl
block4f_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440	bl
block4f_se_expand (Conv2D)	(None, 1, 1, 960)	39,360	bl
block4f_se_excite	(None, 14, 14, 960)	0	bl

(Multiply)				b1
block4f_project_conv (Conv2D)	(None, 14, 14, 160)	153,600		b1
block4f_project_bn (BatchNormalization)	(None, 14, 14, 160)	640		b1
block4f_drop (Dropout)	(None, 14, 14, 160)	0		b1
block4f_add (Add)	(None, 14, 14, 160)	0	b1	b1
block4g_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600		b1
block4g_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840		b1
block4g_expand_activation (Activation)	(None, 14, 14, 960)	0		b1
block4g_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	8,640		b1
block4g_bn (BatchNormalization)	(None, 14, 14, 960)	3,840		b1
block4g_activation (Activation)	(None, 14, 14, 960)	0		b1
block4g_se_squeeze (GlobalAveragePooling2D)	(None, 960)	0		b1
block4g_se_reshape (Reshape)	(None, 1, 1, 960)	0		b1
block4g_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440		b1
block4g_se_expand (Conv2D)	(None, 1, 1, 960)	39,360		b1
block4g_se_excite (Multiply)	(None, 14, 14, 960)	0	b1	b1
block4g_project_conv (Conv2D)	(None, 14, 14, 160)	153,600		b1
block4g_project_bn (BatchNormalization)	(None, 14, 14, 160)	640		b1
block4g_drop (Dropout)	(None, 14, 14, 160)	0		b1
block4g_add (Add)	(None, 14, 14, 160)	0	b1	b1
block4h_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600		b1

block4h_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	b1
block4h_expand_activation (Activation)	(None, 14, 14, 960)	0	b1
block4h_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	8,640	b1
block4h_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	b1
block4h_activation (Activation)	(None, 14, 14, 960)	0	b1
block4h_se_squeeze (GlobalAveragePooling2D)	(None, 960)	0	b1
block4h_se_reshape (Reshape)	(None, 1, 1, 960)	0	b1
block4h_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440	b1
block4h_se_expand (Conv2D)	(None, 1, 1, 960)	39,360	b1
block4h_se_excite (Multiply)	(None, 14, 14, 960)	0	b1 b1
block4h_project_conv (Conv2D)	(None, 14, 14, 160)	153,600	b1
block4h_project_bn (BatchNormalization)	(None, 14, 14, 160)	640	b1
block4h_drop (Dropout)	(None, 14, 14, 160)	0	b1
block4h_add (Add)	(None, 14, 14, 160)	0	b1 b1
block4i_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600	b1
block4i_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	b1
block4i_expand_activation (Activation)	(None, 14, 14, 960)	0	b1
block4i_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	8,640	b1
block4i_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	b1
block4i_activation (Activation)	(None, 14, 14, 960)	0	b1
block4i_se_squeeze	(None, 960)	0	b1

(GlobalAveragePooling2D)				
block4i_se_reshape (Reshape)	(None, 1, 1, 960)	0	bl	
block4i_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440	bl	
block4i_se_expand (Conv2D)	(None, 1, 1, 960)	39,360	bl	
block4i_se_excite (Multiply)	(None, 14, 14, 960)	0	bl bl	
block4i_project_conv (Conv2D)	(None, 14, 14, 160)	153,600	bl	
block4i_project_bn (BatchNormalization)	(None, 14, 14, 160)	640	bl	
block4i_drop (Dropout)	(None, 14, 14, 160)	0	bl	
block4i_add (Add)	(None, 14, 14, 160)	0	bl bl	
block4j_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600	bl	
block4j_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl	
block4j_expand_activation (Activation)	(None, 14, 14, 960)	0	bl	
block4j_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	8,640	bl	
block4j_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl	
block4j_activation (Activation)	(None, 14, 14, 960)	0	bl	
block4j_se_squeeze (GlobalAveragePooling2D)	(None, 960)	0	bl	
block4j_se_reshape (Reshape)	(None, 1, 1, 960)	0	bl	
block4j_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440	bl	
block4j_se_expand (Conv2D)	(None, 1, 1, 960)	39,360	bl	
block4j_se_excite (Multiply)	(None, 14, 14, 960)	0	bl bl	
block4j_project_conv (Conv2D)	(None, 14, 14, 160)	153,600	bl	

block4j_project_bn (BatchNormalization)	(None, 14, 14, 160)	640	bl
block4j_drop (Dropout)	(None, 14, 14, 160)	0	bl
block4j_add (Add)	(None, 14, 14, 160)	0	bl bl
block5a_expand_conv (Conv2D)	(None, 14, 14, 960)	153,600	bl
block5a_expand_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl
block5a_expand_activation (Activation)	(None, 14, 14, 960)	0	bl
block5a_dwconv (DepthwiseConv2D)	(None, 14, 14, 960)	24,000	bl
block5a_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	bl
block5a_activation (Activation)	(None, 14, 14, 960)	0	bl
block5a_se_squeeze (GlobalAveragePooling2D)	(None, 960)	0	bl
block5a_se_reshape (Reshape)	(None, 1, 1, 960)	0	bl
block5a_se_reduce (Conv2D)	(None, 1, 1, 40)	38,440	bl
block5a_se_expand (Conv2D)	(None, 1, 1, 960)	39,360	bl
block5a_se_excite (Multiply)	(None, 14, 14, 960)	0	bl bl
block5a_project_conv (Conv2D)	(None, 14, 14, 224)	215,040	bl
block5a_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	bl
block5b_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	bl
block5b_expand_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	bl
block5b_expand_activation (Activation)	(None, 14, 14, 1344)	0	bl
block5b_dwconv (DepthwiseConv2D)	(None, 14, 14, 1344)	33,600	bl

block5b_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	b1
block5b_activation (Activation)	(None, 14, 14, 1344)	0	b1
block5b_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	b1
block5b_se_reshape (Reshape)	(None, 1, 1, 1344)	0	b1
block5b_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	b1
block5b_se_expand (Conv2D)	(None, 1, 1, 1344)	76,608	b1
block5b_se_excite (Multiply)	(None, 14, 14, 1344)	0	b1 b1
block5b_project_conv (Conv2D)	(None, 14, 14, 224)	301,056	b1
block5b_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	b1
block5b_drop (Dropout)	(None, 14, 14, 224)	0	b1
block5b_add (Add)	(None, 14, 14, 224)	0	b1 b1
block5c_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	b1
block5c_expand_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	b1
block5c_expand_activation (Activation)	(None, 14, 14, 1344)	0	b1
block5c_dwconv (DepthwiseConv2D)	(None, 14, 14, 1344)	33,600	b1
block5c_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	b1
block5c_activation (Activation)	(None, 14, 14, 1344)	0	b1
block5c_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	b1
block5c_se_reshape (Reshape)	(None, 1, 1, 1344)	0	b1
block5c_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	b1
block5c_se_expand	(None, 1, 1, 1344)	76,608	b1

(Conv2D)				
block5c_se_excite (Multiply)	(None, 14, 14, 1344)	0	bl bl	
block5c_project_conv (Conv2D)	(None, 14, 14, 224)	301,056	bl	
block5c_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	bl	
block5c_drop (Dropout)	(None, 14, 14, 224)	0	bl	
block5c_add (Add)	(None, 14, 14, 224)	0	bl bl	
block5d_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	bl	
block5d_expand_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	bl	
block5d_expand_activation (Activation)	(None, 14, 14, 1344)	0	bl	
block5d_dwconv (DepthwiseConv2D)	(None, 14, 14, 1344)	33,600	bl	
block5d_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	bl	
block5d_activation (Activation)	(None, 14, 14, 1344)	0	bl	
block5d_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	bl	
block5d_se_reshape (Reshape)	(None, 1, 1, 1344)	0	bl	
block5d_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	bl	
block5d_se_expand (Conv2D)	(None, 1, 1, 1344)	76,608	bl	
block5d_se_excite (Multiply)	(None, 14, 14, 1344)	0	bl bl	
block5d_project_conv (Conv2D)	(None, 14, 14, 224)	301,056	bl	
block5d_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	bl	
block5d_drop (Dropout)	(None, 14, 14, 224)	0	bl	
block5d_add (Add)	(None, 14, 14, 224)	0	bl bl	

block5e_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	b1
block5e_expand_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	b1
block5e_expand_activation (Activation)	(None, 14, 14, 1344)	0	b1
block5e_dwconv (DepthwiseConv2D)	(None, 14, 14, 1344)	33,600	b1
block5e_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	b1
block5e_activation (Activation)	(None, 14, 14, 1344)	0	b1
block5e_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	b1
block5e_se_reshape (Reshape)	(None, 1, 1, 1344)	0	b1
block5e_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	b1
block5e_se_expand (Conv2D)	(None, 1, 1, 1344)	76,608	b1
block5e_se_excite (Multiply)	(None, 14, 14, 1344)	0	b1 b1
block5e_project_conv (Conv2D)	(None, 14, 14, 224)	301,056	b1
block5e_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	b1
block5e_drop (Dropout)	(None, 14, 14, 224)	0	b1
block5e_add (Add)	(None, 14, 14, 224)	0	b1 b1
block5f_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	b1
block5f_expand_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	b1
block5f_expand_activation (Activation)	(None, 14, 14, 1344)	0	b1
block5f_dwconv (DepthwiseConv2D)	(None, 14, 14, 1344)	33,600	b1
block5f_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	b1
block5f_activation	(None, 14, 14, 1344)	0	b1

(Activation)				
block5f_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	bl	
block5f_se_reshape (Reshape)	(None, 1, 1, 1344)	0	bl	
block5f_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	bl	
block5f_se_expand (Conv2D)	(None, 1, 1, 1344)	76,608	bl	
block5f_se_excite (Multiply)	(None, 14, 14, 1344)	0	bl	bl
block5f_project_conv (Conv2D)	(None, 14, 14, 224)	301,056	bl	
block5f_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	bl	
block5f_drop (Dropout)	(None, 14, 14, 224)	0	bl	
block5f_add (Add)	(None, 14, 14, 224)	0	bl	bl
block5g_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	bl	
block5g_expand_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	bl	
block5g_expand_activation (Activation)	(None, 14, 14, 1344)	0	bl	
block5g_dwconv (DepthwiseConv2D)	(None, 14, 14, 1344)	33,600	bl	
block5g_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	bl	
block5g_activation (Activation)	(None, 14, 14, 1344)	0	bl	
block5g_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	bl	
block5g_se_reshape (Reshape)	(None, 1, 1, 1344)	0	bl	
block5g_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	bl	
block5g_se_expand (Conv2D)	(None, 1, 1, 1344)	76,608	bl	
block5g_se_excite (Multiply)	(None, 14, 14, 1344)	0	bl	bl

block5g_project_conv (Conv2D)	(None, 14, 14, 224)	301,056	b1
block5g_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	b1
block5g_drop (Dropout)	(None, 14, 14, 224)	0	b1
block5g_add (Add)	(None, 14, 14, 224)	0	b1 b1
block5h_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	b1
block5h_expand_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	b1
block5h_expand_activation (Activation)	(None, 14, 14, 1344)	0	b1
block5h_dwconv (DepthwiseConv2D)	(None, 14, 14, 1344)	33,600	b1
block5h_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	b1
block5h_activation (Activation)	(None, 14, 14, 1344)	0	b1
block5h_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	b1
block5h_se_reshape (Reshape)	(None, 1, 1, 1344)	0	b1
block5h_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	b1
block5h_se_expand (Conv2D)	(None, 1, 1, 1344)	76,608	b1
block5h_se_excite (Multiply)	(None, 14, 14, 1344)	0	b1 b1
block5h_project_conv (Conv2D)	(None, 14, 14, 224)	301,056	b1
block5h_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	b1
block5h_drop (Dropout)	(None, 14, 14, 224)	0	b1
block5h_add (Add)	(None, 14, 14, 224)	0	b1 b1
block5i_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	b1
block5i_expand_bn	(None, 14, 14, 1344)	5,376	b1

(BatchNormalization)				
block5i_expand_activation (Activation)	(None, 14, 14, 1344)	0	bl	
block5i_dwconv (DepthwiseConv2D)	(None, 14, 14, 1344)	33,600	bl	
block5i_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	bl	
block5i_activation (Activation)	(None, 14, 14, 1344)	0	bl	
block5i_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	bl	
block5i_se_reshape (Reshape)	(None, 1, 1, 1344)	0	bl	
block5i_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	bl	
block5i_se_expand (Conv2D)	(None, 1, 1, 1344)	76,608	bl	
block5i_se_excite (Multiply)	(None, 14, 14, 1344)	0	bl	bl
block5i_project_conv (Conv2D)	(None, 14, 14, 224)	301,056	bl	
block5i_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	bl	
block5i_drop (Dropout)	(None, 14, 14, 224)	0	bl	
block5i_add (Add)	(None, 14, 14, 224)	0	bl	bl
block5j_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	bl	
block5j_expand_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	bl	
block5j_expand_activation (Activation)	(None, 14, 14, 1344)	0	bl	
block5j_dwconv (DepthwiseConv2D)	(None, 14, 14, 1344)	33,600	bl	
block5j_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	bl	
block5j_activation (Activation)	(None, 14, 14, 1344)	0	bl	
block5j_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	bl	

block5j_se_reshape (Reshape)	(None, 1, 1, 1344)	0	bl
block5j_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	bl
block5j_se_expand (Conv2D)	(None, 1, 1, 1344)	76,608	bl
block5j_se_excite (Multiply)	(None, 14, 14, 1344)	0	bl bl
block5j_project_conv (Conv2D)	(None, 14, 14, 224)	301,056	bl
block5j_project_bn (BatchNormalization)	(None, 14, 14, 224)	896	bl
block5j_drop (Dropout)	(None, 14, 14, 224)	0	bl
block5j_add (Add)	(None, 14, 14, 224)	0	bl bl
block6a_expand_conv (Conv2D)	(None, 14, 14, 1344)	301,056	bl
block6a_expand_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	bl
block6a_expand_activation (Activation)	(None, 14, 14, 1344)	0	bl
block6a_dwconv_pad (ZeroPadding2D)	(None, 17, 17, 1344)	0	bl
block6a_dwconv (DepthwiseConv2D)	(None, 7, 7, 1344)	33,600	bl
block6a_bn (BatchNormalization)	(None, 7, 7, 1344)	5,376	bl
block6a_activation (Activation)	(None, 7, 7, 1344)	0	bl
block6a_se_squeeze (GlobalAveragePooling2D)	(None, 1344)	0	bl
block6a_se_reshape (Reshape)	(None, 1, 1, 1344)	0	bl
block6a_se_reduce (Conv2D)	(None, 1, 1, 56)	75,320	bl
block6a_se_expand (Conv2D)	(None, 1, 1, 1344)	76,608	bl
block6a_se_excite (Multiply)	(None, 7, 7, 1344)	0	bl bl

block6a_project_conv (Conv2D)	(None, 7, 7, 384)	516,096	b1
block6a_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	b1
block6b_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	b1
block6b_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	b1
block6b_expand_activation (Activation)	(None, 7, 7, 2304)	0	b1
block6b_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	b1
block6b_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	b1
block6b_activation (Activation)	(None, 7, 7, 2304)	0	b1
block6b_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	b1
block6b_se_reshape (Reshape)	(None, 1, 1, 2304)	0	b1
block6b_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	b1
block6b_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	b1
block6b_se_excite (Multiply)	(None, 7, 7, 2304)	0	b1 b1
block6b_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	b1
block6b_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	b1
block6b_drop (Dropout)	(None, 7, 7, 384)	0	b1
block6b_add (Add)	(None, 7, 7, 384)	0	b1 b1
block6c_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	b1
block6c_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	b1
block6c_expand_activation (Activation)	(None, 7, 7, 2304)	0	b1
block6c_dwconv	(None, 7, 7, 2304)	57,600	b1

(DepthwiseConv2D)				
block6c_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	
block6c_activation (Activation)	(None, 7, 7, 2304)	0	bl	
block6c_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl	
block6c_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl	
block6c_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl	
block6c_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl	
block6c_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl	bl
block6c_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl	
block6c_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl	
block6c_drop (Dropout)	(None, 7, 7, 384)	0	bl	
block6c_add (Add)	(None, 7, 7, 384)	0	bl	bl
block6d_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl	
block6d_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	
block6d_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl	
block6d_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl	
block6d_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	
block6d_activation (Activation)	(None, 7, 7, 2304)	0	bl	
block6d_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl	
block6d_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl	
block6d_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl	

block6d_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl
block6d_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl bl
block6d_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl
block6d_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl
block6d_drop (Dropout)	(None, 7, 7, 384)	0	bl
block6d_add (Add)	(None, 7, 7, 384)	0	bl bl
block6e_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl
block6e_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6e_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6e_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl
block6e_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6e_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6e_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl
block6e_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl
block6e_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl
block6e_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl
block6e_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl bl
block6e_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl
block6e_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl
block6e_drop (Dropout)	(None, 7, 7, 384)	0	bl
block6e_add (Add)	(None, 7, 7, 384)	0	bl

block6f_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl	
block6f_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	
block6f_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl	
block6f_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl	
block6f_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	
block6f_activation (Activation)	(None, 7, 7, 2304)	0	bl	
block6f_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl	
block6f_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl	
block6f_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl	
block6f_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl	
block6f_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl	bl
block6f_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl	
block6f_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl	
block6f_drop (Dropout)	(None, 7, 7, 384)	0	bl	
block6f_add (Add)	(None, 7, 7, 384)	0	bl	bl
block6g_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl	
block6g_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	
block6g_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl	
block6g_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl	
block6g_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	

block6g_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6g_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl
block6g_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl
block6g_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl
block6g_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl
block6g_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl bl
block6g_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl
block6g_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl
block6g_drop (Dropout)	(None, 7, 7, 384)	0	bl
block6g_add (Add)	(None, 7, 7, 384)	0	bl bl
block6h_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl
block6h_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6h_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6h_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl
block6h_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6h_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6h_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl
block6h_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl
block6h_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl
block6h_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl

block6h_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl bl
block6h_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl
block6h_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl
block6h_drop (Dropout)	(None, 7, 7, 384)	0	bl
block6h_add (Add)	(None, 7, 7, 384)	0	bl bl
block6i_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl
block6i_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6i_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6i_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl
block6i_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6i_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6i_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl
block6i_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl
block6i_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl
block6i_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl
block6i_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl bl
block6i_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl
block6i_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl
block6i_drop (Dropout)	(None, 7, 7, 384)	0	bl
block6i_add (Add)	(None, 7, 7, 384)	0	bl bl
block6j_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl

block6j_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6j_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6j_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl
block6j_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6j_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6j_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl
block6j_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl
block6j_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl
block6j_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl
block6j_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl bl
block6j_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl
block6j_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl
block6j_drop (Dropout)	(None, 7, 7, 384)	0	bl
block6j_add (Add)	(None, 7, 7, 384)	0	bl bl
block6k_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl
block6k_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6k_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6k_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl
block6k_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6k_activation (Activation)	(None, 7, 7, 2304)	0	bl

block6k_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl
block6k_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl
block6k_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl
block6k_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl
block6k_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl bl
block6k_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl
block6k_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl
block6k_drop (Dropout)	(None, 7, 7, 384)	0	bl
block6k_add (Add)	(None, 7, 7, 384)	0	bl bl
block6l_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl
block6l_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6l_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6l_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl
block6l_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block6l_activation (Activation)	(None, 7, 7, 2304)	0	bl
block6l_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl
block6l_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl
block6l_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl
block6l_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl
block6l_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl bl
block6l_project_conv	(None, 7, 7, 384)	884,736	bl

(Conv2D)				
block6l_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl	
block6l_drop (Dropout)	(None, 7, 7, 384)	0	bl	
block6l_add (Add)	(None, 7, 7, 384)	0	bl	bl
block6m_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl	
block6m_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	
block6m_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl	
block6m_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	57,600	bl	
block6m_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	
block6m_activation (Activation)	(None, 7, 7, 2304)	0	bl	
block6m_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl	
block6m_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl	
block6m_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl	
block6m_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl	
block6m_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl	bl
block6m_project_conv (Conv2D)	(None, 7, 7, 384)	884,736	bl	
block6m_project_bn (BatchNormalization)	(None, 7, 7, 384)	1,536	bl	
block6m_drop (Dropout)	(None, 7, 7, 384)	0	bl	
block6m_add (Add)	(None, 7, 7, 384)	0	bl	bl
block7a_expand_conv (Conv2D)	(None, 7, 7, 2304)	884,736	bl	
block7a_expand_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl	

block7a_expand_activation (Activation)	(None, 7, 7, 2304)	0	bl
block7a_dwconv (DepthwiseConv2D)	(None, 7, 7, 2304)	20,736	bl
block7a_bn (BatchNormalization)	(None, 7, 7, 2304)	9,216	bl
block7a_activation (Activation)	(None, 7, 7, 2304)	0	bl
block7a_se_squeeze (GlobalAveragePooling2D)	(None, 2304)	0	bl
block7a_se_reshape (Reshape)	(None, 1, 1, 2304)	0	bl
block7a_se_reduce (Conv2D)	(None, 1, 1, 96)	221,280	bl
block7a_se_expand (Conv2D)	(None, 1, 1, 2304)	223,488	bl
block7a_se_excite (Multiply)	(None, 7, 7, 2304)	0	bl bl
block7a_project_conv (Conv2D)	(None, 7, 7, 640)	1,474,560	bl
block7a_project_bn (BatchNormalization)	(None, 7, 7, 640)	2,560	bl
block7b_expand_conv (Conv2D)	(None, 7, 7, 3840)	2,457,600	bl
block7b_expand_bn (BatchNormalization)	(None, 7, 7, 3840)	15,360	bl
block7b_expand_activation (Activation)	(None, 7, 7, 3840)	0	bl
block7b_dwconv (DepthwiseConv2D)	(None, 7, 7, 3840)	34,560	bl
block7b_bn (BatchNormalization)	(None, 7, 7, 3840)	15,360	bl
block7b_activation (Activation)	(None, 7, 7, 3840)	0	bl
block7b_se_squeeze (GlobalAveragePooling2D)	(None, 3840)	0	bl
block7b_se_reshape (Reshape)	(None, 1, 1, 3840)	0	bl
block7b_se_reduce (Conv2D)	(None, 1, 1, 160)	614,560	bl

block7b_se_expand (Conv2D)	(None, 1, 1, 3840)	618,240	bl
block7b_se_excite (Multiply)	(None, 7, 7, 3840)	0	bl bl
block7b_project_conv (Conv2D)	(None, 7, 7, 640)	2,457,600	bl
block7b_project_bn (BatchNormalization)	(None, 7, 7, 640)	2,560	bl
block7b_drop (Dropout)	(None, 7, 7, 640)	0	bl
block7b_add (Add)	(None, 7, 7, 640)	0	bl bl
block7c_expand_conv (Conv2D)	(None, 7, 7, 3840)	2,457,600	bl
block7c_expand_bn (BatchNormalization)	(None, 7, 7, 3840)	15,360	bl
block7c_expand_activation (Activation)	(None, 7, 7, 3840)	0	bl
block7c_dwconv (DepthwiseConv2D)	(None, 7, 7, 3840)	34,560	bl
block7c_bn (BatchNormalization)	(None, 7, 7, 3840)	15,360	bl
block7c_activation (Activation)	(None, 7, 7, 3840)	0	bl
block7c_se_squeeze (GlobalAveragePooling2D)	(None, 3840)	0	bl
block7c_se_reshape (Reshape)	(None, 1, 1, 3840)	0	bl
block7c_se_reduce (Conv2D)	(None, 1, 1, 160)	614,560	bl
block7c_se_expand (Conv2D)	(None, 1, 1, 3840)	618,240	bl
block7c_se_excite (Multiply)	(None, 7, 7, 3840)	0	bl bl
block7c_project_conv (Conv2D)	(None, 7, 7, 640)	2,457,600	bl
block7c_project_bn (BatchNormalization)	(None, 7, 7, 640)	2,560	bl
block7c_drop (Dropout)	(None, 7, 7, 640)	0	bl
block7c_add (Add)	(None, 7, 7, 640)	0	bl bl

block7d_expand_conv (Conv2D)	(None, 7, 7, 3840)	2,457,600	bl
block7d_expand_bn (BatchNormalization)	(None, 7, 7, 3840)	15,360	bl
block7d_expand_activation (Activation)	(None, 7, 7, 3840)	0	bl
block7d_dwconv (DepthwiseConv2D)	(None, 7, 7, 3840)	34,560	bl
block7d_bn (BatchNormalization)	(None, 7, 7, 3840)	15,360	bl
block7d_activation (Activation)	(None, 7, 7, 3840)	0	bl
block7d_se_squeeze (GlobalAveragePooling2D)	(None, 3840)	0	bl
block7d_se_reshape (Reshape)	(None, 1, 1, 3840)	0	bl
block7d_se_reduce (Conv2D)	(None, 1, 1, 160)	614,560	bl
block7d_se_expand (Conv2D)	(None, 1, 1, 3840)	618,240	bl
block7d_se_excite (Multiply)	(None, 7, 7, 3840)	0	bl bl
block7d_project_conv (Conv2D)	(None, 7, 7, 640)	2,457,600	bl
block7d_project_bn (BatchNormalization)	(None, 7, 7, 640)	2,560	bl
block7d_drop (Dropout)	(None, 7, 7, 640)	0	bl
block7d_add (Add)	(None, 7, 7, 640)	0	bl bl
top_conv (Conv2D)	(None, 7, 7, 2560)	1,638,400	bl
top_bn (BatchNormalization)	(None, 7, 7, 2560)	10,240	to
top_activation (Activation)	(None, 7, 7, 2560)	0	to
reshape_16 (Reshape)	(None, 49, 2560)	0	to
multi_head_attention_8 (MultiHeadAttention)	(None, 49, 2560)	209,779,200	re re
reshape_17 (Reshape)	(None, 7, 7, 2560)	0	mu

gaussian_noise_16 (GaussianNoise)	(None, 7, 7, 2560)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 2560)	0	ga
dense_16 (Dense)	(None, 512)	1,311,232	gl
gaussian_noise_17 (GaussianNoise)	(None, 512)	0	de
dropout_17 (Dropout)	(None, 512)	0	ga
dense_17 (Dense)	(None, 1)	513	dr

Total params: 275,188,632 (1.03 GB)

Trainable params: 211,090,945 (805.25 MB)

Non-trainable params: 64,097,687 (244.51 MB)

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

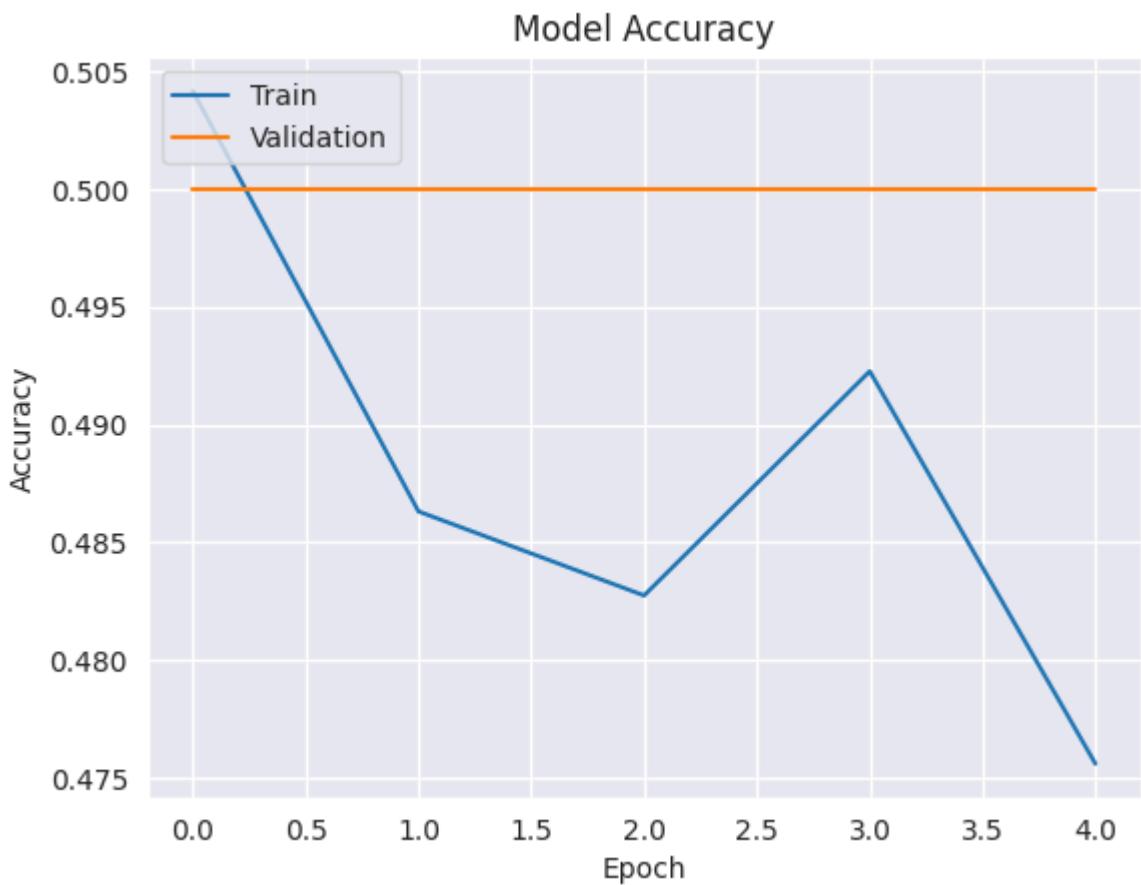
```
Epoch 1/5
105/105 1259s 12s/step - accuracy: 0.4990 - loss: 0.7143 - val_accuracy: 0.5000 - val_loss: 0.6934
Epoch 2/5
105/105 1177s 11s/step - accuracy: 0.4788 - loss: 0.7189 - val_accuracy: 0.5000 - val_loss: 0.6934
Epoch 3/5
105/105 1151s 11s/step - accuracy: 0.4951 - loss: 0.7193 - val_accuracy: 0.5000 - val_loss: 0.6934
Epoch 4/5
105/105 1146s 11s/step - accuracy: 0.4819 - loss: 0.7227 - val_accuracy: 0.5000 - val_loss: 0.6933
Epoch 5/5
105/105 1143s 11s/step - accuracy: 0.4777 - loss: 0.7151 - val_accuracy: 0.5000 - val_loss: 0.6933
```

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for EfficientNetB7 => {inference_time:.4f} seconds")
```

Inference time for EfficientNetB7 => 5877.8191 seconds

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```

```
plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```





```
In [ ]: test_labels = test_gen_new.classes
         predictions = cnn_model.predict(test_gen_new)
         predicted_labels = (predictions > 0.5).astype(int).flatten()
```

14/14 ━━━━━━━━ 74s 5s/step

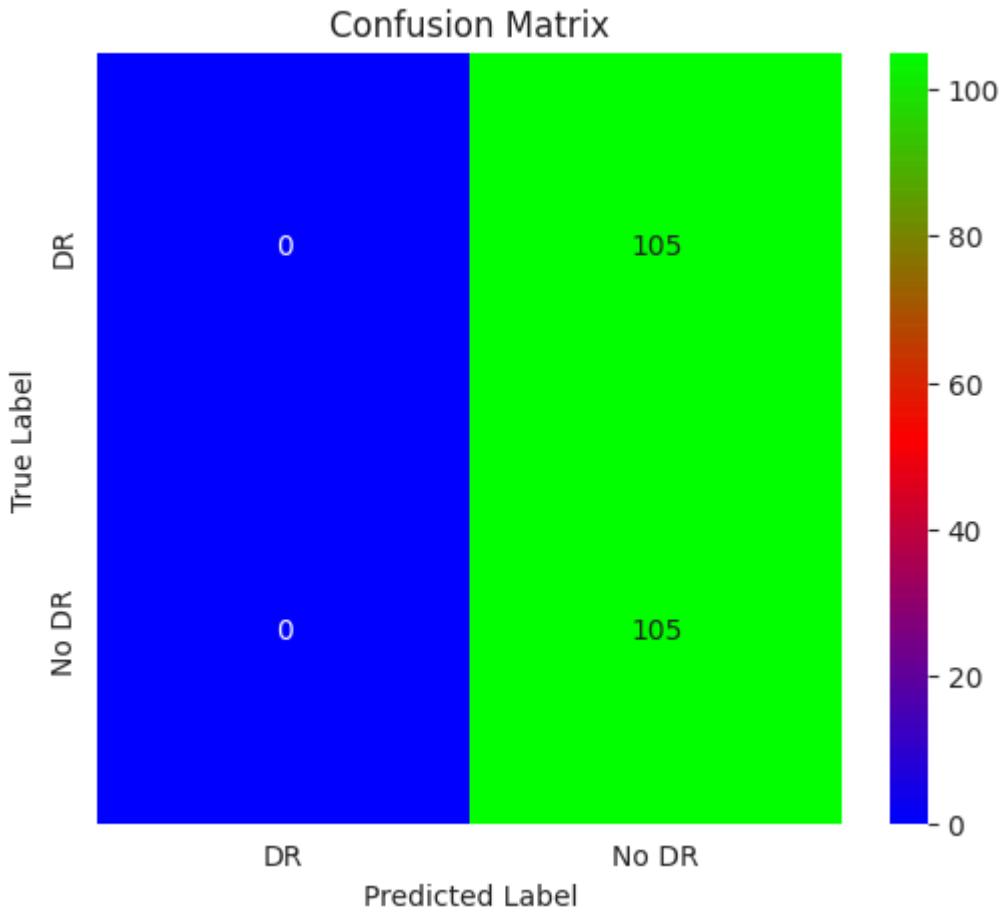
```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(
         print(Fore.BLUE + "Report for EfficientNetB7 Model => ")
         print(report))

Report for EfficientNetB7 Model =>
      precision    recall    f1-score   support
          0        0.00     0.00     0.00     105
          1        0.50     1.00     0.67     105

      accuracy                           0.50     210
      macro avg       0.25     0.50     0.33     210
      weighted avg    0.25     0.50     0.33     210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)

plt.figure(figsize=(6, 5))
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='brg', xticklabels=['DR', 'No DR'],
            yticklabels=['DR', 'No DR'])
plt.xlabel('Predicted Label')
plt.ylabel('True Label')
plt.title('Confusion Matrix')
plt.show()
```



In []:

```
# ResNet101
```

In []:

```
def create_resnet101_model(input_shape):
    inputs = Input(shape=input_shape)

    base_model = ResNet101(weights='imagenet', input_tensor=inputs, include_top=False)

    for layer in base_model.layers:
        layer.trainable = False

    x = base_model.output

    height, width, channels = 7, 7, 2048
    x = Reshape((height * width, channels))(x)

    attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
    attention_output = Reshape((height, width, channels))(attention_output)

    x = GaussianNoise(0.25)(attention_output)

    x = GlobalAveragePooling2D()(x)

    x = Dense(512, activation='relu')(x)
    x = GaussianNoise(0.25)(x)
    x = Dropout(0.25)(x)
```

```
outputs = Dense(1, activation='sigmoid'))(x)

model = Model(inputs=inputs, outputs=outputs)

return model

input_shape = (224, 224, 3)

cnn_model = create_resnet101_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                   loss='binary_crossentropy',
                   metrics=['accuracy'])
```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/resnet/resnet101_weights_tf_dim_ordering_tf_kernels_notop.h5
171446536/171446536  1s 0us/step

In []: `cnn_model.summary()`

Model: "functional_9"

Layer (type)	Output Shape	Param #	Co
input_layer_9 (InputLayer)	(None, 224, 224, 3)	0	-
conv1_pad (ZeroPadding2D)	(None, 230, 230, 3)	0	in
conv1_conv (Conv2D)	(None, 112, 112, 64)	9,472	co
conv1_bn (BatchNormalization)	(None, 112, 112, 64)	256	co
conv1_relu (Activation)	(None, 112, 112, 64)	0	co
pool1_pad (ZeroPadding2D)	(None, 114, 114, 64)	0	co
pool1_pool (MaxPooling2D)	(None, 56, 56, 64)	0	po
conv2_block1_1_conv (Conv2D)	(None, 56, 56, 64)	4,160	po
conv2_block1_1_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block1_1_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block1_2_conv (Conv2D)	(None, 56, 56, 64)	36,928	co
conv2_block1_2_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block1_2_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block1_0_conv (Conv2D)	(None, 56, 56, 256)	16,640	po
conv2_block1_3_conv (Conv2D)	(None, 56, 56, 256)	16,640	co
conv2_block1_0_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block1_3_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block1_add (Add)	(None, 56, 56, 256)	0	co co
conv2_block1_out (Activation)	(None, 56, 56, 256)	0	co
conv2_block2_1_conv (Conv2D)	(None, 56, 56, 64)	16,448	co
conv2_block2_1_bn (BatchNormalization)	(None, 56, 56, 64)	256	co

conv2_block2_1_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block2_2_conv (Conv2D)	(None, 56, 56, 64)	36,928	co
conv2_block2_2_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block2_2_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block2_3_conv (Conv2D)	(None, 56, 56, 256)	16,640	co
conv2_block2_3_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block2_add (Add)	(None, 56, 56, 256)	0	co co
conv2_block2_out (Activation)	(None, 56, 56, 256)	0	co
conv2_block3_1_conv (Conv2D)	(None, 56, 56, 64)	16,448	co
conv2_block3_1_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block3_1_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block3_2_conv (Conv2D)	(None, 56, 56, 64)	36,928	co
conv2_block3_2_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block3_2_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block3_3_conv (Conv2D)	(None, 56, 56, 256)	16,640	co
conv2_block3_3_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block3_add (Add)	(None, 56, 56, 256)	0	co co
conv2_block3_out (Activation)	(None, 56, 56, 256)	0	co
conv3_block1_1_conv (Conv2D)	(None, 28, 28, 128)	32,896	co
conv3_block1_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co

conv3_block1_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block1_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block1_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_0_conv (Conv2D)	(None, 28, 28, 512)	131,584	co
conv3_block1_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block1_0_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block1_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block1_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block1_out (Activation)	(None, 28, 28, 512)	0	co
conv3_block2_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block2_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block2_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block2_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block2_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block2_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block2_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block2_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block2_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block2_out (Activation)	(None, 28, 28, 512)	0	co

conv3_block3_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block3_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block3_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block3_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block3_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block3_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block3_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block3_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block3_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block3_out (Activation)	(None, 28, 28, 512)	0	co
conv3_block4_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block4_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block4_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block4_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block4_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block4_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block4_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block4_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block4_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block4_out (Activation)	(None, 28, 28, 512)	0	co

conv4_block1_1_conv (Conv2D)	(None, 14, 14, 256)	131,328	co
conv4_block1_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block1_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block1_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block1_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block1_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block1_0_conv (Conv2D)	(None, 14, 14, 1024)	525,312	co
conv4_block1_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block1_0_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block1_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block1_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block1_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block2_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block2_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block2_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block2_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block2_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block2_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block2_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block2_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block2_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block2_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block3_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block3_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block3_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block3_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block3_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block3_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block3_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block3_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block3_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block3_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block4_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block4_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block4_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block4_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block4_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block4_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block4_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block4_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block4_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block4_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block5_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block5_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block5_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block5_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block5_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block5_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block5_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block5_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block5_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block5_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block6_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block6_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block6_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block6_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block6_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block6_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block6_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block6_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block6_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block6_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block7_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block7_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block7_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block7_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block7_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block7_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block7_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block7_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block7_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block7_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block8_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block8_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block8_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block8_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block8_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block8_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block8_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block8_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block8_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block8_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block9_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block9_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block9_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block9_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block9_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block9_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block9_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block9_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block9_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block9_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block10_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block10_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block10_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block10_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block10_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block10_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block10_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block10_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block10_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block10_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block11_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block11_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block11_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block11_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block11_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block11_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block11_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block11_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block11_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block11_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block12_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block12_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block12_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block12_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block12_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block12_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block12_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block12_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block12_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block12_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block13_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block13_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block13_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block13_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block13_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block13_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block13_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block13_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block13_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block13_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block14_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block14_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block14_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block14_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block14_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block14_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block14_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block14_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block14_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block14_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block15_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block15_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block15_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block15_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block15_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block15_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block15_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block15_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block15_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block15_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block16_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block16_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block16_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block16_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block16_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block16_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block16_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block16_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block16_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block16_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block17_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block17_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block17_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block17_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block17_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block17_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block17_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block17_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block17_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block17_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block18_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block18_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block18_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block18_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block18_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block18_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block18_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block18_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block18_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block18_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block19_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block19_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block19_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block19_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block19_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block19_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block19_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block19_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block19_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block19_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block20_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block20_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block20_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block20_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block20_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block20_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block20_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block20_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block20_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block20_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block21_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block21_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block21_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block21_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block21_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block21_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block21_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block21_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block21_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block21_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block22_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block22_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block22_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block22_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block22_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block22_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block22_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block22_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block22_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block22_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block23_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block23_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block23_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block23_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block23_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block23_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block23_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block23_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block23_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block23_out (Activation)	(None, 14, 14, 1024)	0	co
conv5_block1_1_conv (Conv2D)	(None, 7, 7, 512)	524,800	co
conv5_block1_1_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block1_1_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block1_2_conv (Conv2D)	(None, 7, 7, 512)	2,359,808	co
conv5_block1_2_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block1_2_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block1_0_conv (Conv2D)	(None, 7, 7, 2048)	2,099,200	co
conv5_block1_3_conv (Conv2D)	(None, 7, 7, 2048)	1,050,624	co

conv5_block1_0_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block1_3_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block1_add (Add)	(None, 7, 7, 2048)	0	co co
conv5_block1_out (Activation)	(None, 7, 7, 2048)	0	co
conv5_block2_1_conv (Conv2D)	(None, 7, 7, 512)	1,049,088	co
conv5_block2_1_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block2_1_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block2_2_conv (Conv2D)	(None, 7, 7, 512)	2,359,808	co
conv5_block2_2_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block2_2_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block2_3_conv (Conv2D)	(None, 7, 7, 2048)	1,050,624	co
conv5_block2_3_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block2_add (Add)	(None, 7, 7, 2048)	0	co co
conv5_block2_out (Activation)	(None, 7, 7, 2048)	0	co
conv5_block3_1_conv (Conv2D)	(None, 7, 7, 512)	1,049,088	co
conv5_block3_1_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block3_1_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block3_2_conv (Conv2D)	(None, 7, 7, 512)	2,359,808	co
conv5_block3_2_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block3_2_relu (Activation)	(None, 7, 7, 512)	0	co

conv5_block3_3_conv (Conv2D)	(None, 7, 7, 2048)	1,050,624	co
conv5_block3_3_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block3_add (Add)	(None, 7, 7, 2048)	0	co co
conv5_block3_out (Activation)	(None, 7, 7, 2048)	0	co
reshape_18 (Reshape)	(None, 49, 2048)	0	co
multi_head_attention_9 (MultiHeadAttention)	(None, 49, 2048)	134,268,928	re re
reshape_19 (Reshape)	(None, 7, 7, 2048)	0	mu
gaussian_noise_18 (GaussianNoise)	(None, 7, 7, 2048)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 2048)	0	ga
dense_18 (Dense)	(None, 512)	1,049,088	gl
gaussian_noise_19 (GaussianNoise)	(None, 512)	0	de
dropout_19 (Dropout)	(None, 512)	0	ga
dense_19 (Dense)	(None, 1)	513	dr

Total params: 177,976,705 (678.93 MB)

Trainable params: 135,318,529 (516.20 MB)

Non-trainable params: 42,658,176 (162.73 MB)

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

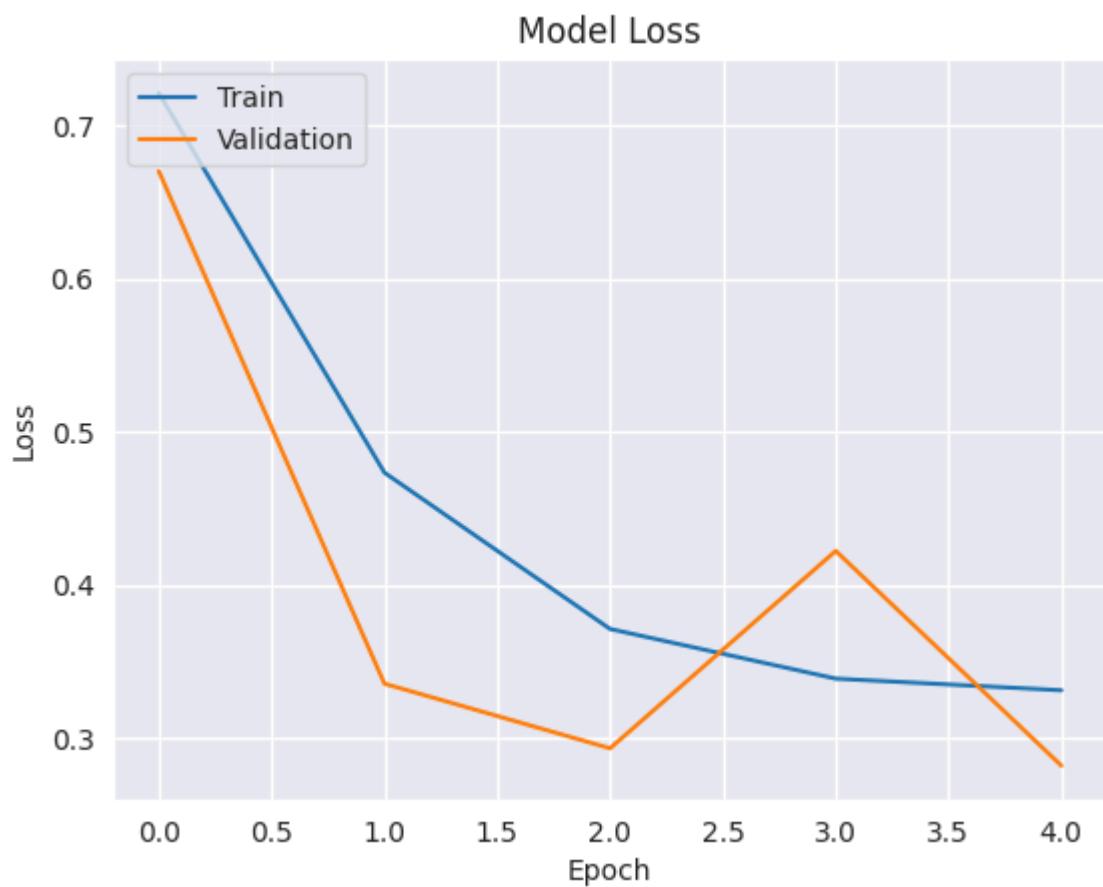
```
Epoch 1/5
105/105 771s 7s/step - accuracy: 0.5248 - loss: 0.7439 - val
_accuracy: 0.5000 - val_loss: 0.6701
Epoch 2/5
105/105 755s 7s/step - accuracy: 0.7069 - loss: 0.5557 - val
_accuracy: 0.8476 - val_loss: 0.3355
Epoch 3/5
105/105 746s 7s/step - accuracy: 0.8472 - loss: 0.3748 - val
_accuracy: 0.8714 - val_loss: 0.2934
Epoch 4/5
105/105 747s 7s/step - accuracy: 0.8546 - loss: 0.3319 - val
_accuracy: 0.8238 - val_loss: 0.4222
Epoch 5/5
105/105 803s 7s/step - accuracy: 0.8515 - loss: 0.3430 - val
_accuracy: 0.8524 - val_loss: 0.2820
```

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for ResNet101 => {inference_time:.4f} seconds")
```

```
Inference time for ResNet101 => 3822.7004 seconds
```

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(  
print(Fore.GREEN + "Report for ResNet101 Model => ")  
print(report))
```

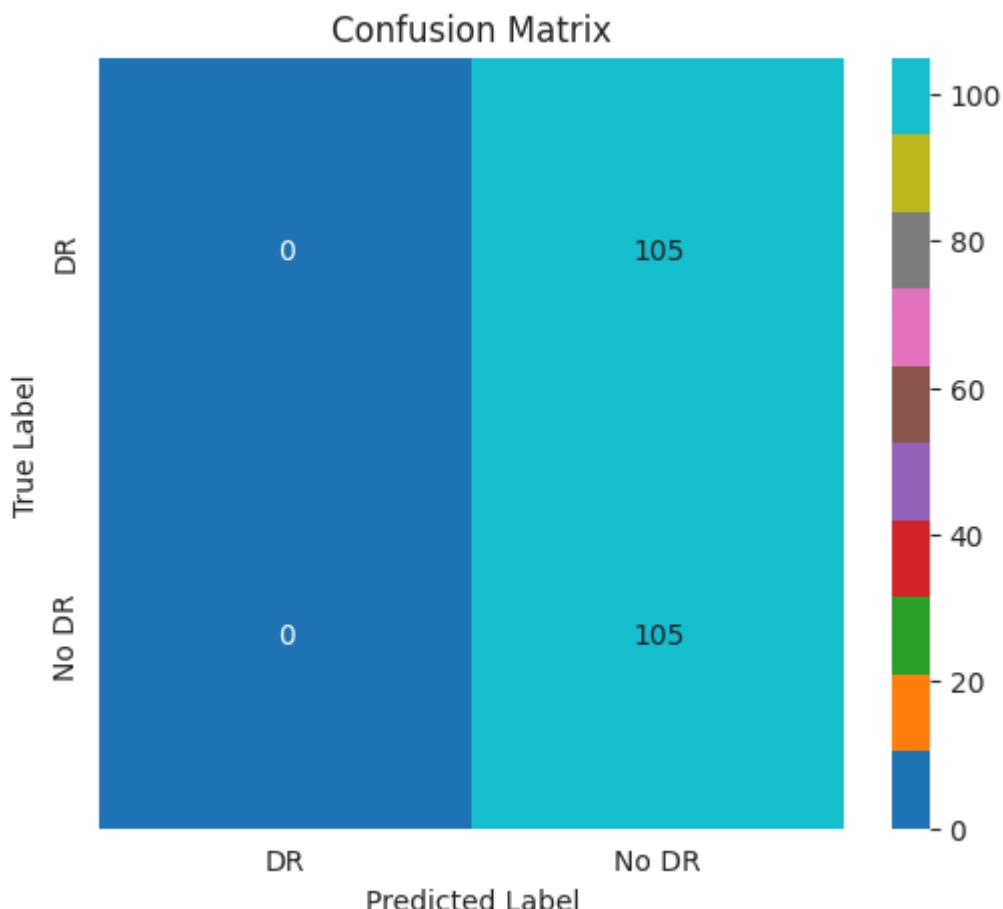
```
Report for ResNet101 Model =>
      precision    recall  f1-score   support

          0       0.00     0.00     0.00    105
          1       0.50     1.00     0.67    105

   accuracy                           0.50    210
macro avg       0.25     0.50     0.33    210
weighted avg    0.25     0.50     0.33    210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)

plt.figure(figsize=(6, 5))
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='tab10', xticklabels=['DR', 'No DR'],
            yticklabels=['True Label', 'Predicted Label'])
plt.title('Confusion Matrix')
plt.show()
```



ResNet152

```
In [ ]: def create_resnet152_model(input_shape):
    inputs = Input(shape=input_shape)

    base_model = ResNet152(weights='imagenet', input_tensor=inputs, include_top=False)

    for layer in base_model.layers:
        layer.trainable = False

    x = base_model.output
```

```

height, width, channels = 7, 7, 2048
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='relu')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

input_shape = (224, 224, 3)

cnn_model = create_resnet152_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                   loss='binary_crossentropy',
                   metrics=['accuracy'])

```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/resnet/resnet152_weights_tf_dim_ordering_tf_kernels_notop.h5
234698864/234698864 ————— 1s 0us/step

In []: `cnn_model.summary()`

Model: "functional_10"

Layer (type)	Output Shape	Param #	Co
input_layer_10 (InputLayer)	(None, 224, 224, 3)	0	-
conv1_pad (ZeroPadding2D)	(None, 230, 230, 3)	0	in
conv1_conv (Conv2D)	(None, 112, 112, 64)	9,472	co
conv1_bn (BatchNormalization)	(None, 112, 112, 64)	256	co
conv1_relu (Activation)	(None, 112, 112, 64)	0	co
pool1_pad (ZeroPadding2D)	(None, 114, 114, 64)	0	co
pool1_pool (MaxPooling2D)	(None, 56, 56, 64)	0	po
conv2_block1_1_conv (Conv2D)	(None, 56, 56, 64)	4,160	po
conv2_block1_1_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block1_1_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block1_2_conv (Conv2D)	(None, 56, 56, 64)	36,928	co
conv2_block1_2_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block1_2_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block1_0_conv (Conv2D)	(None, 56, 56, 256)	16,640	po
conv2_block1_3_conv (Conv2D)	(None, 56, 56, 256)	16,640	co
conv2_block1_0_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block1_3_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block1_add (Add)	(None, 56, 56, 256)	0	co
conv2_block1_out (Activation)	(None, 56, 56, 256)	0	co
conv2_block2_1_conv (Conv2D)	(None, 56, 56, 64)	16,448	co
conv2_block2_1_bn (BatchNormalization)	(None, 56, 56, 64)	256	co

conv2_block2_1_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block2_2_conv (Conv2D)	(None, 56, 56, 64)	36,928	co
conv2_block2_2_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block2_2_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block2_3_conv (Conv2D)	(None, 56, 56, 256)	16,640	co
conv2_block2_3_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block2_add (Add)	(None, 56, 56, 256)	0	co co
conv2_block2_out (Activation)	(None, 56, 56, 256)	0	co
conv2_block3_1_conv (Conv2D)	(None, 56, 56, 64)	16,448	co
conv2_block3_1_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block3_1_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block3_2_conv (Conv2D)	(None, 56, 56, 64)	36,928	co
conv2_block3_2_bn (BatchNormalization)	(None, 56, 56, 64)	256	co
conv2_block3_2_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block3_3_conv (Conv2D)	(None, 56, 56, 256)	16,640	co
conv2_block3_3_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
conv2_block3_add (Add)	(None, 56, 56, 256)	0	co co
conv2_block3_out (Activation)	(None, 56, 56, 256)	0	co
conv3_block1_1_conv (Conv2D)	(None, 28, 28, 128)	32,896	co
conv3_block1_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co

conv3_block1_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block1_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block1_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_0_conv (Conv2D)	(None, 28, 28, 512)	131,584	co
conv3_block1_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block1_0_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block1_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block1_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block1_out (Activation)	(None, 28, 28, 512)	0	co
conv3_block2_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block2_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block2_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block2_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block2_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block2_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block2_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block2_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block2_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block2_out (Activation)	(None, 28, 28, 512)	0	co

conv3_block3_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block3_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block3_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block3_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block3_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block3_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block3_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block3_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block3_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block3_out (Activation)	(None, 28, 28, 512)	0	co
conv3_block4_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block4_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block4_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block4_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block4_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block4_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block4_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block4_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block4_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block4_out (Activation)	(None, 28, 28, 512)	0	co

conv3_block5_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block5_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block5_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block5_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block5_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block5_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block5_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block5_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block5_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block5_out (Activation)	(None, 28, 28, 512)	0	co
conv3_block6_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block6_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block6_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block6_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block6_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block6_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block6_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block6_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block6_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block6_out (Activation)	(None, 28, 28, 512)	0	co

conv3_block7_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block7_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block7_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block7_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block7_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block7_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block7_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block7_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block7_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block7_out (Activation)	(None, 28, 28, 512)	0	co
conv3_block8_1_conv (Conv2D)	(None, 28, 28, 128)	65,664	co
conv3_block8_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block8_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block8_2_conv (Conv2D)	(None, 28, 28, 128)	147,584	co
conv3_block8_2_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block8_2_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block8_3_conv (Conv2D)	(None, 28, 28, 512)	66,048	co
conv3_block8_3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
conv3_block8_add (Add)	(None, 28, 28, 512)	0	co co
conv3_block8_out (Activation)	(None, 28, 28, 512)	0	co

conv4_block1_1_conv (Conv2D)	(None, 14, 14, 256)	131,328	co
conv4_block1_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block1_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block1_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block1_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block1_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block1_0_conv (Conv2D)	(None, 14, 14, 1024)	525,312	co
conv4_block1_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block1_0_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block1_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block1_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block1_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block2_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block2_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block2_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block2_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block2_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block2_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block2_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block2_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block2_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block2_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block3_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block3_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block3_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block3_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block3_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block3_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block3_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block3_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block3_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block3_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block4_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block4_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block4_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block4_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block4_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block4_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block4_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block4_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block4_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block4_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block5_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block5_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block5_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block5_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block5_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block5_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block5_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block5_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block5_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block5_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block6_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block6_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block6_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block6_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block6_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block6_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block6_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block6_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block6_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block6_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block7_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block7_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block7_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block7_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block7_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block7_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block7_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block7_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block7_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block7_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block8_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block8_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block8_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block8_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block8_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block8_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block8_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block8_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block8_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block8_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block9_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block9_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block9_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block9_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block9_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block9_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block9_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block9_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block9_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block9_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block10_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block10_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block10_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block10_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block10_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block10_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block10_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block10_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block10_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block10_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block11_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block11_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block11_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block11_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block11_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block11_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block11_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block11_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block11_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block11_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block12_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block12_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block12_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block12_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block12_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block12_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block12_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block12_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block12_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block12_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block13_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block13_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block13_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block13_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block13_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block13_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block13_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block13_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block13_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block13_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block14_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block14_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block14_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block14_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block14_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block14_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block14_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block14_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block14_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block14_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block15_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block15_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block15_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block15_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block15_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block15_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block15_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block15_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block15_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block15_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block16_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block16_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block16_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block16_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block16_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block16_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block16_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block16_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block16_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block16_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block17_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block17_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block17_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block17_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block17_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block17_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block17_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block17_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block17_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block17_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block18_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block18_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block18_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block18_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block18_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block18_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block18_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block18_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block18_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block18_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block19_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block19_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block19_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block19_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block19_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block19_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block19_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block19_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block19_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block19_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block20_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block20_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block20_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block20_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block20_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block20_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block20_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block20_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block20_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block20_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block21_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block21_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block21_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block21_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block21_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block21_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block21_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block21_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block21_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block21_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block22_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block22_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block22_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block22_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block22_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block22_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block22_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block22_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block22_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block22_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block23_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block23_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block23_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block23_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block23_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block23_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block23_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block23_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block23_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block23_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block24_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block24_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block24_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block24_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block24_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block24_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block24_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block24_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block24_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block24_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block25_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block25_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block25_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block25_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block25_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block25_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block25_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block25_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block25_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block25_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block26_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block26_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block26_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block26_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block26_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block26_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block26_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block26_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block26_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block26_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block27_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block27_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block27_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block27_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block27_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block27_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block27_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block27_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block27_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block27_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block28_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block28_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block28_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block28_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block28_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block28_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block28_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block28_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block28_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block28_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block29_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block29_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block29_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block29_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block29_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block29_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block29_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block29_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block29_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block29_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block30_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block30_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block30_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block30_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block30_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block30_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block30_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block30_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block30_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block30_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block31_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block31_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block31_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block31_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block31_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block31_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block31_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block31_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block31_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block31_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block32_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block32_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block32_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block32_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block32_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block32_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block32_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block32_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block32_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block32_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block33_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block33_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block33_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block33_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block33_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block33_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block33_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block33_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block33_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block33_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block34_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block34_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block34_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block34_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block34_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block34_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block34_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block34_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block34_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block34_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block35_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block35_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block35_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block35_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block35_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block35_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block35_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block35_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block35_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block35_out (Activation)	(None, 14, 14, 1024)	0	co
conv4_block36_1_conv (Conv2D)	(None, 14, 14, 256)	262,400	co
conv4_block36_1_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block36_1_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block36_2_conv (Conv2D)	(None, 14, 14, 256)	590,080	co
conv4_block36_2_bn (BatchNormalization)	(None, 14, 14, 256)	1,024	co
conv4_block36_2_relu (Activation)	(None, 14, 14, 256)	0	co
conv4_block36_3_conv (Conv2D)	(None, 14, 14, 1024)	263,168	co
conv4_block36_3_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co

conv4_block36_add (Add)	(None, 14, 14, 1024)	0	co co
conv4_block36_out (Activation)	(None, 14, 14, 1024)	0	co
conv5_block1_1_conv (Conv2D)	(None, 7, 7, 512)	524,800	co
conv5_block1_1_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block1_1_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block1_2_conv (Conv2D)	(None, 7, 7, 512)	2,359,808	co
conv5_block1_2_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block1_2_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block1_0_conv (Conv2D)	(None, 7, 7, 2048)	2,099,200	co
conv5_block1_3_conv (Conv2D)	(None, 7, 7, 2048)	1,050,624	co
conv5_block1_0_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block1_3_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block1_add (Add)	(None, 7, 7, 2048)	0	co co
conv5_block1_out (Activation)	(None, 7, 7, 2048)	0	co
conv5_block2_1_conv (Conv2D)	(None, 7, 7, 512)	1,049,088	co
conv5_block2_1_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block2_1_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block2_2_conv (Conv2D)	(None, 7, 7, 512)	2,359,808	co
conv5_block2_2_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block2_2_relu (Activation)	(None, 7, 7, 512)	0	co

conv5_block2_3_conv (Conv2D)	(None, 7, 7, 2048)	1,050,624	co
conv5_block2_3_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block2_add (Add)	(None, 7, 7, 2048)	0	co co
conv5_block2_out (Activation)	(None, 7, 7, 2048)	0	co
conv5_block3_1_conv (Conv2D)	(None, 7, 7, 512)	1,049,088	co
conv5_block3_1_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block3_1_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block3_2_conv (Conv2D)	(None, 7, 7, 512)	2,359,808	co
conv5_block3_2_bn (BatchNormalization)	(None, 7, 7, 512)	2,048	co
conv5_block3_2_relu (Activation)	(None, 7, 7, 512)	0	co
conv5_block3_3_conv (Conv2D)	(None, 7, 7, 2048)	1,050,624	co
conv5_block3_3_bn (BatchNormalization)	(None, 7, 7, 2048)	8,192	co
conv5_block3_add (Add)	(None, 7, 7, 2048)	0	co co
conv5_block3_out (Activation)	(None, 7, 7, 2048)	0	co
reshape_20 (Reshape)	(None, 49, 2048)	0	co
multi_head_attention_10 (MultiHeadAttention)	(None, 49, 2048)	134,268,928	re re
reshape_21 (Reshape)	(None, 7, 7, 2048)	0	mu
gaussian_noise_20 (GaussianNoise)	(None, 7, 7, 2048)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 2048)	0	ga
dense_20 (Dense)	(None, 512)	1,049,088	gl
gaussian_noise_21 (GaussianNoise)	(None, 512)	0	de

dropout_21 (Dropout)	(None, 512)	0	ga
dense_21 (Dense)	(None, 1)	513	dr

Total params: 193,689,473 (738.87 MB)
Trainable params: 135,318,529 (516.20 MB)
Non-trainable params: 58,370,944 (222.67 MB)

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

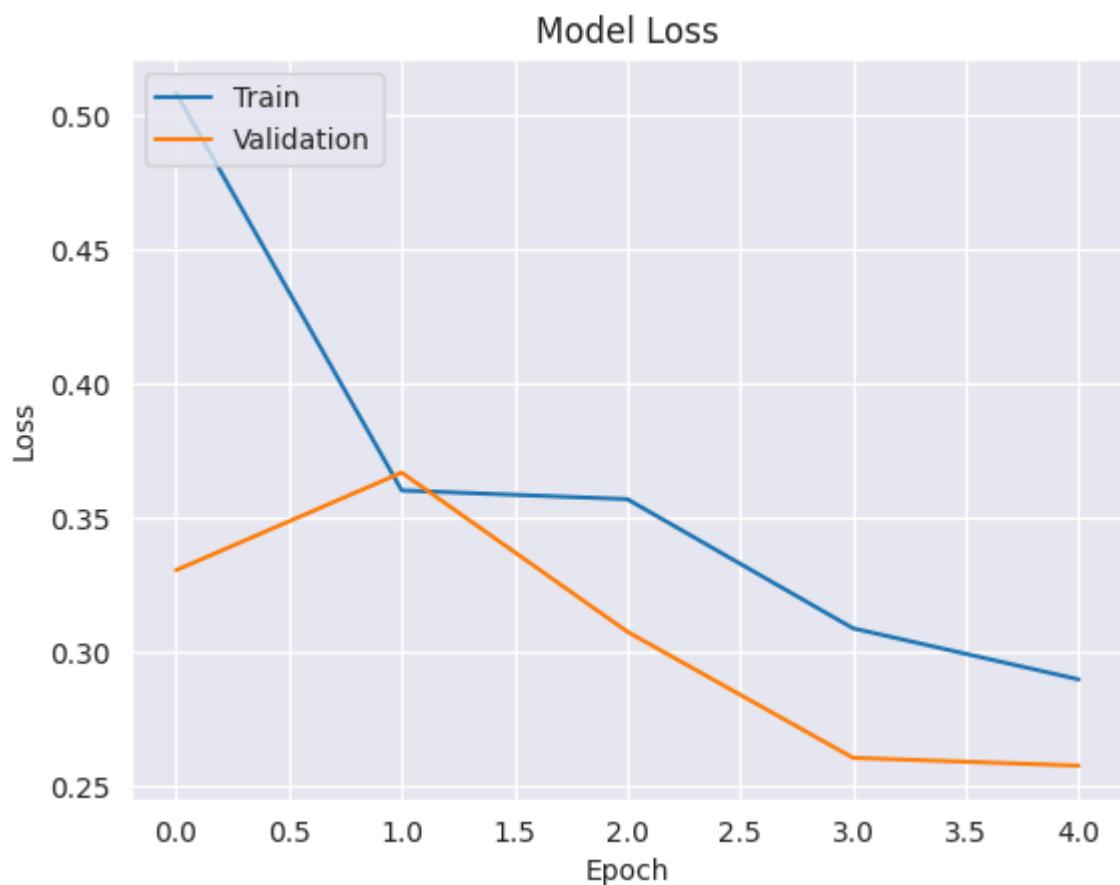
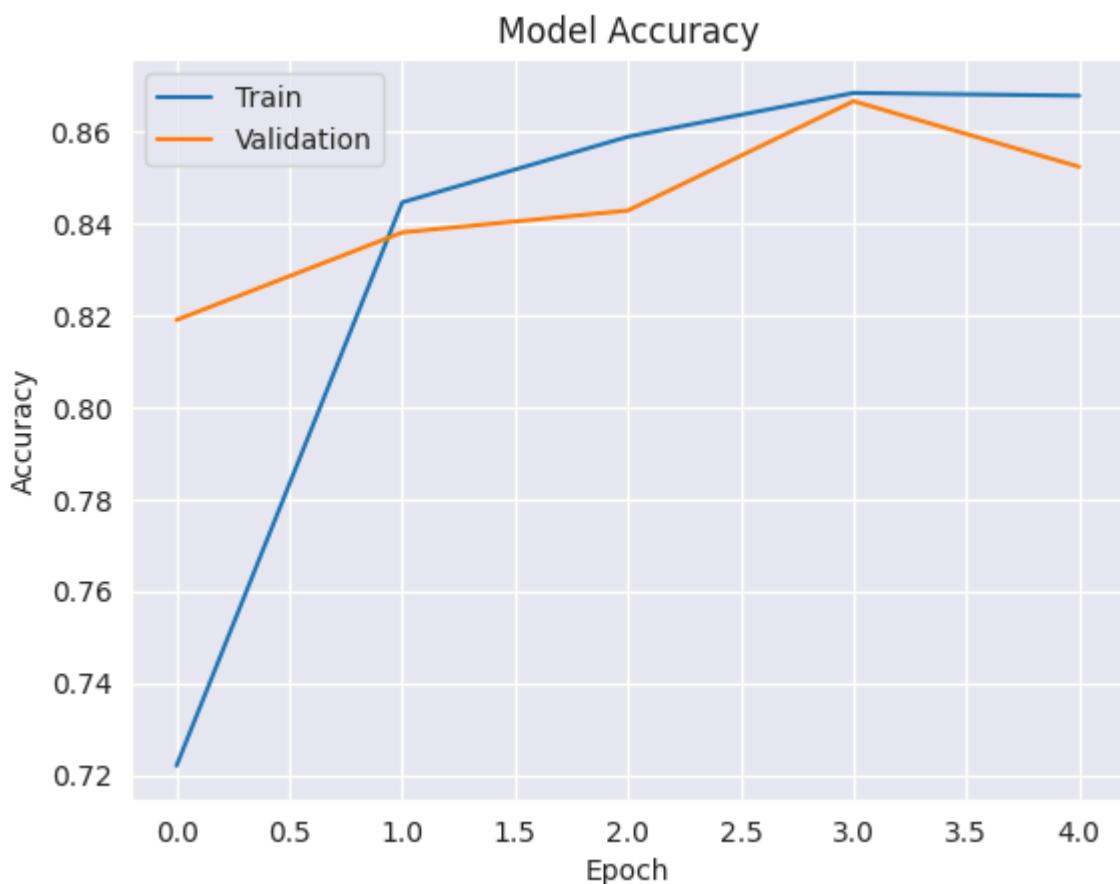
Epoch 1/5
105/105 ————— 842s 8s/step - accuracy: 0.6004 - loss: 0.6351 - val_accuracy: 0.8190 - val_loss: 0.3304
Epoch 2/5
105/105 ————— 816s 8s/step - accuracy: 0.8312 - loss: 0.3929 - val_accuracy: 0.8381 - val_loss: 0.3668
Epoch 3/5
105/105 ————— 814s 8s/step - accuracy: 0.8535 - loss: 0.3701 - val_accuracy: 0.8429 - val_loss: 0.3075
Epoch 4/5
105/105 ————— 815s 8s/step - accuracy: 0.8687 - loss: 0.3128 - val_accuracy: 0.8667 - val_loss: 0.2606
Epoch 5/5
105/105 ————— 816s 8s/step - accuracy: 0.8535 - loss: 0.3073 - val_accuracy: 0.8524 - val_loss: 0.2576

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for ResNet152 => {inference_time:.4f} seconds")
```

Inference time for ResNet152 => 4104.0230 seconds

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(  
print(Fore.GREEN + "Report for ResNet152 Model => ")  
print(report))
```

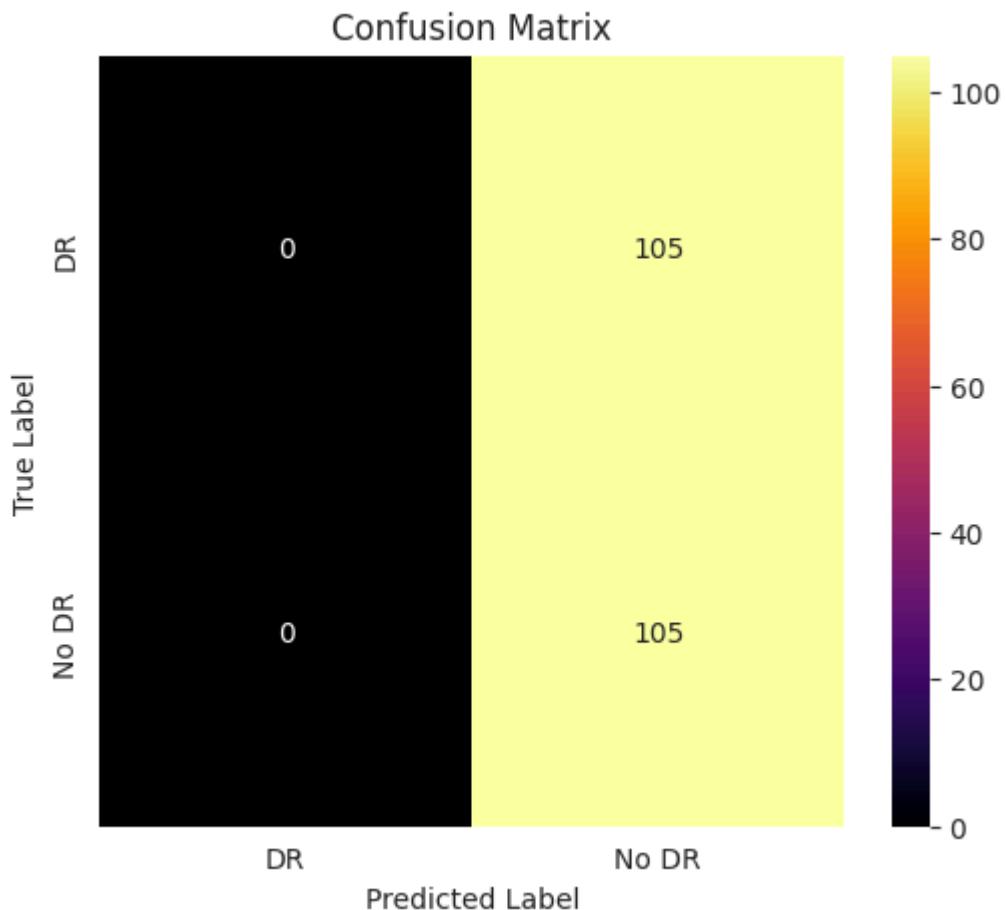
```
Report for ResNet152 Model =>
      precision    recall  f1-score   support

          0       0.00     0.00     0.00     105
          1       0.50     1.00     0.67     105

   accuracy                           0.50     210
macro avg       0.25     0.50     0.33     210
weighted avg    0.25     0.50     0.33     210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)

plt.figure(figsize=(6, 5))
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='inferno', xticklabels=['DR',
plt.xlabel('Predicted Label')
plt.ylabel('True Label')
plt.title('Confusion Matrix')
plt.show()
```



DenseNet169

```
In [ ]: def create_densenet169_model(input_shape):
    inputs = Input(shape=input_shape)

    base_model = DenseNet169(weights='imagenet', input_tensor=inputs, include_to

    for layer in base_model.layers:
        layer.trainable = False

    x = base_model.output
```

```
height, width, channels = 7, 7, 1664
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='relu')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

input_shape = (224, 224, 3)

cnn_model = create_densenet169_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                  loss='binary_crossentropy',
                  metrics=['accuracy'])
```

In []: `cnn_model.summary()`

Model: "functional_11"

Layer (type)	Output Shape	Param #	Co
input_layer_12 (InputLayer)	(None, 224, 224, 3)	0	-
zero_padding2d_4 (ZeroPadding2D)	(None, 230, 230, 3)	0	in
conv1_conv (Conv2D)	(None, 112, 112, 64)	9,408	ze
conv1_bn (BatchNormalization)	(None, 112, 112, 64)	256	co
conv1_relu (Activation)	(None, 112, 112, 64)	0	co
zero_padding2d_5 (ZeroPadding2D)	(None, 114, 114, 64)	0	co
pool1 (MaxPooling2D)	(None, 56, 56, 64)	0	ze
conv2_block1_0_bn (BatchNormalization)	(None, 56, 56, 64)	256	po
conv2_block1_0_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block1_1_conv (Conv2D)	(None, 56, 56, 128)	8,192	co
conv2_block1_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block1_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block1_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block1_concat (Concatenate)	(None, 56, 56, 96)	0	po co
conv2_block2_0_bn (BatchNormalization)	(None, 56, 56, 96)	384	co
conv2_block2_0_relu (Activation)	(None, 56, 56, 96)	0	co
conv2_block2_1_conv (Conv2D)	(None, 56, 56, 128)	12,288	co
conv2_block2_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block2_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block2_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co

conv2_block2_concat (Concatenate)	(None, 56, 56, 128)	0	co co
conv2_block3_0_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block3_0_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block3_1_conv (Conv2D)	(None, 56, 56, 128)	16,384	co
conv2_block3_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block3_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block3_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block3_concat (Concatenate)	(None, 56, 56, 160)	0	co co
conv2_block4_0_bn (BatchNormalization)	(None, 56, 56, 160)	640	co
conv2_block4_0_relu (Activation)	(None, 56, 56, 160)	0	co
conv2_block4_1_conv (Conv2D)	(None, 56, 56, 128)	20,480	co
conv2_block4_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block4_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block4_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block4_concat (Concatenate)	(None, 56, 56, 192)	0	co co
conv2_block5_0_bn (BatchNormalization)	(None, 56, 56, 192)	768	co
conv2_block5_0_relu (Activation)	(None, 56, 56, 192)	0	co
conv2_block5_1_conv (Conv2D)	(None, 56, 56, 128)	24,576	co
conv2_block5_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block5_1_relu (Activation)	(None, 56, 56, 128)	0	co

conv2_block5_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block5_concat (Concatenate)	(None, 56, 56, 224)	0	co co
conv2_block6_0_bn (BatchNormalization)	(None, 56, 56, 224)	896	co
conv2_block6_0_relu (Activation)	(None, 56, 56, 224)	0	co
conv2_block6_1_conv (Conv2D)	(None, 56, 56, 128)	28,672	co
conv2_block6_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block6_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block6_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block6_concat (Concatenate)	(None, 56, 56, 256)	0	co co
pool2_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
pool2_relu (Activation)	(None, 56, 56, 256)	0	po
pool2_conv (Conv2D)	(None, 56, 56, 128)	32,768	po
pool2_pool (AveragePooling2D)	(None, 28, 28, 128)	0	po
conv3_block1_0_bn (BatchNormalization)	(None, 28, 28, 128)	512	po
conv3_block1_0_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_1_conv (Conv2D)	(None, 28, 28, 128)	16,384	co
conv3_block1_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block1_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block1_concat (Concatenate)	(None, 28, 28, 160)	0	po co
conv3_block2_0_bn (BatchNormalization)	(None, 28, 28, 160)	640	co

conv3_block2_0_relu (Activation)	(None, 28, 28, 160)	0	co
conv3_block2_1_conv (Conv2D)	(None, 28, 28, 128)	20,480	co
conv3_block2_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block2_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block2_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block2_concat (Concatenate)	(None, 28, 28, 192)	0	co co
conv3_block3_0_bn (BatchNormalization)	(None, 28, 28, 192)	768	co
conv3_block3_0_relu (Activation)	(None, 28, 28, 192)	0	co
conv3_block3_1_conv (Conv2D)	(None, 28, 28, 128)	24,576	co
conv3_block3_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block3_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block3_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block3_concat (Concatenate)	(None, 28, 28, 224)	0	co co
conv3_block4_0_bn (BatchNormalization)	(None, 28, 28, 224)	896	co
conv3_block4_0_relu (Activation)	(None, 28, 28, 224)	0	co
conv3_block4_1_conv (Conv2D)	(None, 28, 28, 128)	28,672	co
conv3_block4_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block4_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block4_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block4_concat (Concatenate)	(None, 28, 28, 256)	0	co co

conv3_block5_0_bn (BatchNormalization)	(None, 28, 28, 256)	1,024	co
conv3_block5_0_relu (Activation)	(None, 28, 28, 256)	0	co
conv3_block5_1_conv (Conv2D)	(None, 28, 28, 128)	32,768	co
conv3_block5_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block5_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block5_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block5_concat (Concatenate)	(None, 28, 28, 288)	0	co co
conv3_block6_0_bn (BatchNormalization)	(None, 28, 28, 288)	1,152	co
conv3_block6_0_relu (Activation)	(None, 28, 28, 288)	0	co
conv3_block6_1_conv (Conv2D)	(None, 28, 28, 128)	36,864	co
conv3_block6_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block6_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block6_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block6_concat (Concatenate)	(None, 28, 28, 320)	0	co co
conv3_block7_0_bn (BatchNormalization)	(None, 28, 28, 320)	1,280	co
conv3_block7_0_relu (Activation)	(None, 28, 28, 320)	0	co
conv3_block7_1_conv (Conv2D)	(None, 28, 28, 128)	40,960	co
conv3_block7_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block7_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block7_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co

conv3_block7_concat (Concatenate)	(None, 28, 28, 352)	0	co co
conv3_block8_0_bn (BatchNormalization)	(None, 28, 28, 352)	1,408	co
conv3_block8_0_relu (Activation)	(None, 28, 28, 352)	0	co
conv3_block8_1_conv (Conv2D)	(None, 28, 28, 128)	45,056	co
conv3_block8_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block8_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block8_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block8_concat (Concatenate)	(None, 28, 28, 384)	0	co co
conv3_block9_0_bn (BatchNormalization)	(None, 28, 28, 384)	1,536	co
conv3_block9_0_relu (Activation)	(None, 28, 28, 384)	0	co
conv3_block9_1_conv (Conv2D)	(None, 28, 28, 128)	49,152	co
conv3_block9_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block9_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block9_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block9_concat (Concatenate)	(None, 28, 28, 416)	0	co co
conv3_block10_0_bn (BatchNormalization)	(None, 28, 28, 416)	1,664	co
conv3_block10_0_relu (Activation)	(None, 28, 28, 416)	0	co
conv3_block10_1_conv (Conv2D)	(None, 28, 28, 128)	53,248	co
conv3_block10_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block10_1_relu (Activation)	(None, 28, 28, 128)	0	co

conv3_block10_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block10_concat (Concatenate)	(None, 28, 28, 448)	0	co co
conv3_block11_0_bn (BatchNormalization)	(None, 28, 28, 448)	1,792	co
conv3_block11_0_relu (Activation)	(None, 28, 28, 448)	0	co
conv3_block11_1_conv (Conv2D)	(None, 28, 28, 128)	57,344	co
conv3_block11_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block11_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block11_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block11_concat (Concatenate)	(None, 28, 28, 480)	0	co co
conv3_block12_0_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	co
conv3_block12_0_relu (Activation)	(None, 28, 28, 480)	0	co
conv3_block12_1_conv (Conv2D)	(None, 28, 28, 128)	61,440	co
conv3_block12_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block12_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block12_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block12_concat (Concatenate)	(None, 28, 28, 512)	0	co co
pool3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
pool3_relu (Activation)	(None, 28, 28, 512)	0	po
pool3_conv (Conv2D)	(None, 28, 28, 256)	131,072	po
pool3_pool (AveragePooling2D)	(None, 14, 14, 256)	0	po
conv4_block1_0_bn	(None, 14, 14, 256)	1,024	po

(BatchNormalization)				
conv4_block1_0_relu (Activation)	(None, 14, 14, 256)	0	co	
conv4_block1_1_conv (Conv2D)	(None, 14, 14, 128)	32,768	co	
conv4_block1_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block1_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block1_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block1_concat (Concatenate)	(None, 14, 14, 288)	0	po co	
conv4_block2_0_bn (BatchNormalization)	(None, 14, 14, 288)	1,152	co	
conv4_block2_0_relu (Activation)	(None, 14, 14, 288)	0	co	
conv4_block2_1_conv (Conv2D)	(None, 14, 14, 128)	36,864	co	
conv4_block2_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block2_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block2_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block2_concat (Concatenate)	(None, 14, 14, 320)	0	co co	
conv4_block3_0_bn (BatchNormalization)	(None, 14, 14, 320)	1,280	co	
conv4_block3_0_relu (Activation)	(None, 14, 14, 320)	0	co	
conv4_block3_1_conv (Conv2D)	(None, 14, 14, 128)	40,960	co	
conv4_block3_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block3_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block3_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block3_concat	(None, 14, 14, 352)	0	co	

(Concatenate)			co
conv4_block4_0_bn (BatchNormalization)	(None, 14, 14, 352)	1,408	co
conv4_block4_0_relu (Activation)	(None, 14, 14, 352)	0	co
conv4_block4_1_conv (Conv2D)	(None, 14, 14, 128)	45,056	co
conv4_block4_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block4_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block4_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block4_concat (Concatenate)	(None, 14, 14, 384)	0	co
conv4_block4_concat (Concatenate)		co	
conv4_block5_0_bn (BatchNormalization)	(None, 14, 14, 384)	1,536	co
conv4_block5_0_relu (Activation)	(None, 14, 14, 384)	0	co
conv4_block5_1_conv (Conv2D)	(None, 14, 14, 128)	49,152	co
conv4_block5_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block5_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block5_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block5_concat (Concatenate)	(None, 14, 14, 416)	0	co
conv4_block5_concat (Concatenate)		co	
conv4_block6_0_bn (BatchNormalization)	(None, 14, 14, 416)	1,664	co
conv4_block6_0_relu (Activation)	(None, 14, 14, 416)	0	co
conv4_block6_1_conv (Conv2D)	(None, 14, 14, 128)	53,248	co
conv4_block6_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block6_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block6_2_conv	(None, 14, 14, 32)	36,864	co

(Conv2D)				
conv4_block6_concat (Concatenate)	(None, 14, 14, 448)	0	co	co
conv4_block7_0_bn (BatchNormalization)	(None, 14, 14, 448)	1,792	co	
conv4_block7_0_relu (Activation)	(None, 14, 14, 448)	0	co	
conv4_block7_1_conv (Conv2D)	(None, 14, 14, 128)	57,344	co	
conv4_block7_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block7_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block7_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block7_concat (Concatenate)	(None, 14, 14, 480)	0	co	co
conv4_block8_0_bn (BatchNormalization)	(None, 14, 14, 480)	1,920	co	
conv4_block8_0_relu (Activation)	(None, 14, 14, 480)	0	co	
conv4_block8_1_conv (Conv2D)	(None, 14, 14, 128)	61,440	co	
conv4_block8_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block8_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block8_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block8_concat (Concatenate)	(None, 14, 14, 512)	0	co	co
conv4_block9_0_bn (BatchNormalization)	(None, 14, 14, 512)	2,048	co	
conv4_block9_0_relu (Activation)	(None, 14, 14, 512)	0	co	
conv4_block9_1_conv (Conv2D)	(None, 14, 14, 128)	65,536	co	
conv4_block9_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block9_1_relu	(None, 14, 14, 128)	0	co	

(Activation)			
conv4_block9_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block9_concat (Concatenate)	(None, 14, 14, 544)	0	co co
conv4_block10_0_bn (BatchNormalization)	(None, 14, 14, 544)	2,176	co
conv4_block10_0_relu (Activation)	(None, 14, 14, 544)	0	co
conv4_block10_1_conv (Conv2D)	(None, 14, 14, 128)	69,632	co
conv4_block10_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block10_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block10_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block10_concat (Concatenate)	(None, 14, 14, 576)	0	co co
conv4_block11_0_bn (BatchNormalization)	(None, 14, 14, 576)	2,304	co
conv4_block11_0_relu (Activation)	(None, 14, 14, 576)	0	co
conv4_block11_1_conv (Conv2D)	(None, 14, 14, 128)	73,728	co
conv4_block11_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block11_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block11_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block11_concat (Concatenate)	(None, 14, 14, 608)	0	co co
conv4_block12_0_bn (BatchNormalization)	(None, 14, 14, 608)	2,432	co
conv4_block12_0_relu (Activation)	(None, 14, 14, 608)	0	co
conv4_block12_1_conv (Conv2D)	(None, 14, 14, 128)	77,824	co
conv4_block12_1_bn	(None, 14, 14, 128)	512	co

(BatchNormalization)				
conv4_block12_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block12_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block12_concat (Concatenate)	(None, 14, 14, 640)	0	co	co
conv4_block13_0_bn (BatchNormalization)	(None, 14, 14, 640)	2,560	co	
conv4_block13_0_relu (Activation)	(None, 14, 14, 640)	0	co	
conv4_block13_1_conv (Conv2D)	(None, 14, 14, 128)	81,920	co	
conv4_block13_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block13_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block13_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block13_concat (Concatenate)	(None, 14, 14, 672)	0	co	co
conv4_block14_0_bn (BatchNormalization)	(None, 14, 14, 672)	2,688	co	
conv4_block14_0_relu (Activation)	(None, 14, 14, 672)	0	co	
conv4_block14_1_conv (Conv2D)	(None, 14, 14, 128)	86,016	co	
conv4_block14_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block14_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block14_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block14_concat (Concatenate)	(None, 14, 14, 704)	0	co	co
conv4_block15_0_bn (BatchNormalization)	(None, 14, 14, 704)	2,816	co	
conv4_block15_0_relu (Activation)	(None, 14, 14, 704)	0	co	
conv4_block15_1_conv	(None, 14, 14, 128)	90,112	co	

(Conv2D)				
conv4_block15_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block15_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block15_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block15_concat (Concatenate)	(None, 14, 14, 736)	0	co	co
conv4_block16_0_bn (BatchNormalization)	(None, 14, 14, 736)	2,944	co	
conv4_block16_0_relu (Activation)	(None, 14, 14, 736)	0	co	
conv4_block16_1_conv (Conv2D)	(None, 14, 14, 128)	94,208	co	
conv4_block16_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block16_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block16_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block16_concat (Concatenate)	(None, 14, 14, 768)	0	co	co
conv4_block17_0_bn (BatchNormalization)	(None, 14, 14, 768)	3,072	co	
conv4_block17_0_relu (Activation)	(None, 14, 14, 768)	0	co	
conv4_block17_1_conv (Conv2D)	(None, 14, 14, 128)	98,304	co	
conv4_block17_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block17_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block17_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block17_concat (Concatenate)	(None, 14, 14, 800)	0	co	co
conv4_block18_0_bn (BatchNormalization)	(None, 14, 14, 800)	3,200	co	
conv4_block18_0_relu	(None, 14, 14, 800)	0	co	

(Activation)			
conv4_block18_1_conv (Conv2D)	(None, 14, 14, 128)	102,400	co
conv4_block18_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block18_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block18_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block18_concat (Concatenate)	(None, 14, 14, 832)	0	co
conv4_block19_0_bn (BatchNormalization)	(None, 14, 14, 832)	3,328	co
conv4_block19_0_relu (Activation)	(None, 14, 14, 832)	0	co
conv4_block19_1_conv (Conv2D)	(None, 14, 14, 128)	106,496	co
conv4_block19_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block19_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block19_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block19_concat (Concatenate)	(None, 14, 14, 864)	0	co
conv4_block20_0_bn (BatchNormalization)	(None, 14, 14, 864)	3,456	co
conv4_block20_0_relu (Activation)	(None, 14, 14, 864)	0	co
conv4_block20_1_conv (Conv2D)	(None, 14, 14, 128)	110,592	co
conv4_block20_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block20_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block20_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block20_concat (Concatenate)	(None, 14, 14, 896)	0	co
conv4_block21_0_bn	(None, 14, 14, 896)	3,584	co

(BatchNormalization)				
conv4_block21_0_relu (Activation)	(None, 14, 14, 896)	0	co	
conv4_block21_1_conv (Conv2D)	(None, 14, 14, 128)	114,688	co	
conv4_block21_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block21_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block21_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block21_concat (Concatenate)	(None, 14, 14, 928)	0	co	co
conv4_block22_0_bn (BatchNormalization)	(None, 14, 14, 928)	3,712	co	
conv4_block22_0_relu (Activation)	(None, 14, 14, 928)	0	co	
conv4_block22_1_conv (Conv2D)	(None, 14, 14, 128)	118,784	co	
conv4_block22_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block22_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block22_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block22_concat (Concatenate)	(None, 14, 14, 960)	0	co	co
conv4_block23_0_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	co	
conv4_block23_0_relu (Activation)	(None, 14, 14, 960)	0	co	
conv4_block23_1_conv (Conv2D)	(None, 14, 14, 128)	122,880	co	
conv4_block23_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block23_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block23_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block23_concat	(None, 14, 14, 992)	0	co	

(Concatenate)			co
conv4_block24_0_bn (BatchNormalization)	(None, 14, 14, 992)	3,968	co
conv4_block24_0_relu (Activation)	(None, 14, 14, 992)	0	co
conv4_block24_1_conv (Conv2D)	(None, 14, 14, 128)	126,976	co
conv4_block24_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block24_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block24_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block24_concat (Concatenate)	(None, 14, 14, 1024)	0	co
conv4_block24_concat (Concatenate)		co	
conv4_block25_0_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	co
conv4_block25_0_relu (Activation)	(None, 14, 14, 1024)	0	co
conv4_block25_1_conv (Conv2D)	(None, 14, 14, 128)	131,072	co
conv4_block25_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block25_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block25_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block25_concat (Concatenate)	(None, 14, 14, 1056)	0	co
conv4_block25_concat (Concatenate)		co	
conv4_block26_0_bn (BatchNormalization)	(None, 14, 14, 1056)	4,224	co
conv4_block26_0_relu (Activation)	(None, 14, 14, 1056)	0	co
conv4_block26_1_conv (Conv2D)	(None, 14, 14, 128)	135,168	co
conv4_block26_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block26_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block26_2_conv	(None, 14, 14, 32)	36,864	co

(Conv2D)				
conv4_block26_concat (Concatenate)	(None, 14, 14, 1088)	0	co	co
conv4_block27_0_bn (BatchNormalization)	(None, 14, 14, 1088)	4,352	co	
conv4_block27_0_relu (Activation)	(None, 14, 14, 1088)	0	co	
conv4_block27_1_conv (Conv2D)	(None, 14, 14, 128)	139,264	co	
conv4_block27_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block27_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block27_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block27_concat (Concatenate)	(None, 14, 14, 1120)	0	co	co
conv4_block28_0_bn (BatchNormalization)	(None, 14, 14, 1120)	4,480	co	
conv4_block28_0_relu (Activation)	(None, 14, 14, 1120)	0	co	
conv4_block28_1_conv (Conv2D)	(None, 14, 14, 128)	143,360	co	
conv4_block28_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block28_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block28_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block28_concat (Concatenate)	(None, 14, 14, 1152)	0	co	co
conv4_block29_0_bn (BatchNormalization)	(None, 14, 14, 1152)	4,608	co	
conv4_block29_0_relu (Activation)	(None, 14, 14, 1152)	0	co	
conv4_block29_1_conv (Conv2D)	(None, 14, 14, 128)	147,456	co	
conv4_block29_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block29_1_relu	(None, 14, 14, 128)	0	co	

(Activation)			
conv4_block29_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block29_concat (Concatenate)	(None, 14, 14, 1184)	0	co co
conv4_block30_0_bn (BatchNormalization)	(None, 14, 14, 1184)	4,736	co
conv4_block30_0_relu (Activation)	(None, 14, 14, 1184)	0	co
conv4_block30_1_conv (Conv2D)	(None, 14, 14, 128)	151,552	co
conv4_block30_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block30_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block30_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block30_concat (Concatenate)	(None, 14, 14, 1216)	0	co co
conv4_block31_0_bn (BatchNormalization)	(None, 14, 14, 1216)	4,864	co
conv4_block31_0_relu (Activation)	(None, 14, 14, 1216)	0	co
conv4_block31_1_conv (Conv2D)	(None, 14, 14, 128)	155,648	co
conv4_block31_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block31_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block31_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block31_concat (Concatenate)	(None, 14, 14, 1248)	0	co co
conv4_block32_0_bn (BatchNormalization)	(None, 14, 14, 1248)	4,992	co
conv4_block32_0_relu (Activation)	(None, 14, 14, 1248)	0	co
conv4_block32_1_conv (Conv2D)	(None, 14, 14, 128)	159,744	co
conv4_block32_1_bn	(None, 14, 14, 128)	512	co

(BatchNormalization)				
conv4_block32_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block32_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block32_concat (Concatenate)	(None, 14, 14, 1280)	0	co	co
pool4_bn (BatchNormalization)	(None, 14, 14, 1280)	5,120	co	
pool4_relu (Activation)	(None, 14, 14, 1280)	0	po	
pool4_conv (Conv2D)	(None, 14, 14, 640)	819,200	po	
pool4_pool (AveragePooling2D)	(None, 7, 7, 640)	0	po	
conv5_block1_0_bn (BatchNormalization)	(None, 7, 7, 640)	2,560	po	
conv5_block1_0_relu (Activation)	(None, 7, 7, 640)	0	co	
conv5_block1_1_conv (Conv2D)	(None, 7, 7, 128)	81,920	co	
conv5_block1_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co	
conv5_block1_1_relu (Activation)	(None, 7, 7, 128)	0	co	
conv5_block1_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co	
conv5_block1_concat (Concatenate)	(None, 7, 7, 672)	0	po	co
conv5_block2_0_bn (BatchNormalization)	(None, 7, 7, 672)	2,688	co	
conv5_block2_0_relu (Activation)	(None, 7, 7, 672)	0	co	
conv5_block2_1_conv (Conv2D)	(None, 7, 7, 128)	86,016	co	
conv5_block2_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co	
conv5_block2_1_relu (Activation)	(None, 7, 7, 128)	0	co	
conv5_block2_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co	

conv5_block2_concat (Concatenate)	(None, 7, 7, 704)	0	co co
conv5_block3_0_bn (BatchNormalization)	(None, 7, 7, 704)	2,816	co
conv5_block3_0_relu (Activation)	(None, 7, 7, 704)	0	co
conv5_block3_1_conv (Conv2D)	(None, 7, 7, 128)	90,112	co
conv5_block3_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block3_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block3_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block3_concat (Concatenate)	(None, 7, 7, 736)	0	co co
conv5_block4_0_bn (BatchNormalization)	(None, 7, 7, 736)	2,944	co
conv5_block4_0_relu (Activation)	(None, 7, 7, 736)	0	co
conv5_block4_1_conv (Conv2D)	(None, 7, 7, 128)	94,208	co
conv5_block4_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block4_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block4_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block4_concat (Concatenate)	(None, 7, 7, 768)	0	co co
conv5_block5_0_bn (BatchNormalization)	(None, 7, 7, 768)	3,072	co
conv5_block5_0_relu (Activation)	(None, 7, 7, 768)	0	co
conv5_block5_1_conv (Conv2D)	(None, 7, 7, 128)	98,304	co
conv5_block5_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block5_1_relu (Activation)	(None, 7, 7, 128)	0	co

conv5_block5_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block5_concat (Concatenate)	(None, 7, 7, 800)	0	co co
conv5_block6_0_bn (BatchNormalization)	(None, 7, 7, 800)	3,200	co
conv5_block6_0_relu (Activation)	(None, 7, 7, 800)	0	co
conv5_block6_1_conv (Conv2D)	(None, 7, 7, 128)	102,400	co
conv5_block6_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block6_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block6_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block6_concat (Concatenate)	(None, 7, 7, 832)	0	co co
conv5_block7_0_bn (BatchNormalization)	(None, 7, 7, 832)	3,328	co
conv5_block7_0_relu (Activation)	(None, 7, 7, 832)	0	co
conv5_block7_1_conv (Conv2D)	(None, 7, 7, 128)	106,496	co
conv5_block7_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block7_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block7_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block7_concat (Concatenate)	(None, 7, 7, 864)	0	co co
conv5_block8_0_bn (BatchNormalization)	(None, 7, 7, 864)	3,456	co
conv5_block8_0_relu (Activation)	(None, 7, 7, 864)	0	co
conv5_block8_1_conv (Conv2D)	(None, 7, 7, 128)	110,592	co
conv5_block8_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co

conv5_block8_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block8_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block8_concat (Concatenate)	(None, 7, 7, 896)	0	co co
conv5_block9_0_bn (BatchNormalization)	(None, 7, 7, 896)	3,584	co
conv5_block9_0_relu (Activation)	(None, 7, 7, 896)	0	co
conv5_block9_1_conv (Conv2D)	(None, 7, 7, 128)	114,688	co
conv5_block9_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block9_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block9_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block9_concat (Concatenate)	(None, 7, 7, 928)	0	co co
conv5_block10_0_bn (BatchNormalization)	(None, 7, 7, 928)	3,712	co
conv5_block10_0_relu (Activation)	(None, 7, 7, 928)	0	co
conv5_block10_1_conv (Conv2D)	(None, 7, 7, 128)	118,784	co
conv5_block10_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block10_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block10_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block10_concat (Concatenate)	(None, 7, 7, 960)	0	co co
conv5_block11_0_bn (BatchNormalization)	(None, 7, 7, 960)	3,840	co
conv5_block11_0_relu (Activation)	(None, 7, 7, 960)	0	co
conv5_block11_1_conv (Conv2D)	(None, 7, 7, 128)	122,880	co

conv5_block11_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block11_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block11_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block11_concat (Concatenate)	(None, 7, 7, 992)	0	co co
conv5_block12_0_bn (BatchNormalization)	(None, 7, 7, 992)	3,968	co
conv5_block12_0_relu (Activation)	(None, 7, 7, 992)	0	co
conv5_block12_1_conv (Conv2D)	(None, 7, 7, 128)	126,976	co
conv5_block12_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block12_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block12_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block12_concat (Concatenate)	(None, 7, 7, 1024)	0	co co
conv5_block13_0_bn (BatchNormalization)	(None, 7, 7, 1024)	4,096	co
conv5_block13_0_relu (Activation)	(None, 7, 7, 1024)	0	co
conv5_block13_1_conv (Conv2D)	(None, 7, 7, 128)	131,072	co
conv5_block13_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block13_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block13_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block13_concat (Concatenate)	(None, 7, 7, 1056)	0	co co
conv5_block14_0_bn (BatchNormalization)	(None, 7, 7, 1056)	4,224	co
conv5_block14_0_relu (Activation)	(None, 7, 7, 1056)	0	co

conv5_block14_1_conv (Conv2D)	(None, 7, 7, 128)	135,168	co
conv5_block14_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block14_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block14_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block14_concat (Concatenate)	(None, 7, 7, 1088)	0	co co
conv5_block15_0_bn (BatchNormalization)	(None, 7, 7, 1088)	4,352	co
conv5_block15_0_relu (Activation)	(None, 7, 7, 1088)	0	co
conv5_block15_1_conv (Conv2D)	(None, 7, 7, 128)	139,264	co
conv5_block15_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block15_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block15_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block15_concat (Concatenate)	(None, 7, 7, 1120)	0	co co
conv5_block16_0_bn (BatchNormalization)	(None, 7, 7, 1120)	4,480	co
conv5_block16_0_relu (Activation)	(None, 7, 7, 1120)	0	co
conv5_block16_1_conv (Conv2D)	(None, 7, 7, 128)	143,360	co
conv5_block16_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block16_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block16_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block16_concat (Concatenate)	(None, 7, 7, 1152)	0	co co
conv5_block17_0_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608	co

conv5_block17_0_relu (Activation)	(None, 7, 7, 1152)	0	co
conv5_block17_1_conv (Conv2D)	(None, 7, 7, 128)	147,456	co
conv5_block17_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block17_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block17_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block17_concat (Concatenate)	(None, 7, 7, 1184)	0	co co
conv5_block18_0_bn (BatchNormalization)	(None, 7, 7, 1184)	4,736	co
conv5_block18_0_relu (Activation)	(None, 7, 7, 1184)	0	co
conv5_block18_1_conv (Conv2D)	(None, 7, 7, 128)	151,552	co
conv5_block18_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block18_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block18_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block18_concat (Concatenate)	(None, 7, 7, 1216)	0	co co
conv5_block19_0_bn (BatchNormalization)	(None, 7, 7, 1216)	4,864	co
conv5_block19_0_relu (Activation)	(None, 7, 7, 1216)	0	co
conv5_block19_1_conv (Conv2D)	(None, 7, 7, 128)	155,648	co
conv5_block19_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block19_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block19_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block19_concat (Concatenate)	(None, 7, 7, 1248)	0	co co

conv5_block20_0_bn (BatchNormalization)	(None, 7, 7, 1248)	4,992	co
conv5_block20_0_relu (Activation)	(None, 7, 7, 1248)	0	co
conv5_block20_1_conv (Conv2D)	(None, 7, 7, 128)	159,744	co
conv5_block20_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block20_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block20_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block20_concat (Concatenate)	(None, 7, 7, 1280)	0	co co
conv5_block21_0_bn (BatchNormalization)	(None, 7, 7, 1280)	5,120	co
conv5_block21_0_relu (Activation)	(None, 7, 7, 1280)	0	co
conv5_block21_1_conv (Conv2D)	(None, 7, 7, 128)	163,840	co
conv5_block21_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block21_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block21_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block21_concat (Concatenate)	(None, 7, 7, 1312)	0	co co
conv5_block22_0_bn (BatchNormalization)	(None, 7, 7, 1312)	5,248	co
conv5_block22_0_relu (Activation)	(None, 7, 7, 1312)	0	co
conv5_block22_1_conv (Conv2D)	(None, 7, 7, 128)	167,936	co
conv5_block22_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block22_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block22_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co

conv5_block22_concat (Concatenate)	(None, 7, 7, 1344)	0	co co
conv5_block23_0_bn (BatchNormalization)	(None, 7, 7, 1344)	5,376	co
conv5_block23_0_relu (Activation)	(None, 7, 7, 1344)	0	co
conv5_block23_1_conv (Conv2D)	(None, 7, 7, 128)	172,032	co
conv5_block23_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block23_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block23_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block23_concat (Concatenate)	(None, 7, 7, 1376)	0	co co
conv5_block24_0_bn (BatchNormalization)	(None, 7, 7, 1376)	5,504	co
conv5_block24_0_relu (Activation)	(None, 7, 7, 1376)	0	co
conv5_block24_1_conv (Conv2D)	(None, 7, 7, 128)	176,128	co
conv5_block24_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block24_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block24_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block24_concat (Concatenate)	(None, 7, 7, 1408)	0	co co
conv5_block25_0_bn (BatchNormalization)	(None, 7, 7, 1408)	5,632	co
conv5_block25_0_relu (Activation)	(None, 7, 7, 1408)	0	co
conv5_block25_1_conv (Conv2D)	(None, 7, 7, 128)	180,224	co
conv5_block25_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block25_1_relu (Activation)	(None, 7, 7, 128)	0	co

conv5_block25_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block25_concat (Concatenate)	(None, 7, 7, 1440)	0	co co
conv5_block26_0_bn (BatchNormalization)	(None, 7, 7, 1440)	5,760	co
conv5_block26_0_relu (Activation)	(None, 7, 7, 1440)	0	co
conv5_block26_1_conv (Conv2D)	(None, 7, 7, 128)	184,320	co
conv5_block26_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block26_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block26_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block26_concat (Concatenate)	(None, 7, 7, 1472)	0	co co
conv5_block27_0_bn (BatchNormalization)	(None, 7, 7, 1472)	5,888	co
conv5_block27_0_relu (Activation)	(None, 7, 7, 1472)	0	co
conv5_block27_1_conv (Conv2D)	(None, 7, 7, 128)	188,416	co
conv5_block27_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block27_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block27_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block27_concat (Concatenate)	(None, 7, 7, 1504)	0	co co
conv5_block28_0_bn (BatchNormalization)	(None, 7, 7, 1504)	6,016	co
conv5_block28_0_relu (Activation)	(None, 7, 7, 1504)	0	co
conv5_block28_1_conv (Conv2D)	(None, 7, 7, 128)	192,512	co
conv5_block28_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co

conv5_block28_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block28_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block28_concat (Concatenate)	(None, 7, 7, 1536)	0	co co
conv5_block29_0_bn (BatchNormalization)	(None, 7, 7, 1536)	6,144	co
conv5_block29_0_relu (Activation)	(None, 7, 7, 1536)	0	co
conv5_block29_1_conv (Conv2D)	(None, 7, 7, 128)	196,608	co
conv5_block29_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block29_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block29_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block29_concat (Concatenate)	(None, 7, 7, 1568)	0	co co
conv5_block30_0_bn (BatchNormalization)	(None, 7, 7, 1568)	6,272	co
conv5_block30_0_relu (Activation)	(None, 7, 7, 1568)	0	co
conv5_block30_1_conv (Conv2D)	(None, 7, 7, 128)	200,704	co
conv5_block30_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block30_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block30_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block30_concat (Concatenate)	(None, 7, 7, 1600)	0	co co
conv5_block31_0_bn (BatchNormalization)	(None, 7, 7, 1600)	6,400	co
conv5_block31_0_relu (Activation)	(None, 7, 7, 1600)	0	co
conv5_block31_1_conv (Conv2D)	(None, 7, 7, 128)	204,800	co

conv5_block31_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block31_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block31_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block31_concat (Concatenate)	(None, 7, 7, 1632)	0	co co
conv5_block32_0_bn (BatchNormalization)	(None, 7, 7, 1632)	6,528	co
conv5_block32_0_relu (Activation)	(None, 7, 7, 1632)	0	co
conv5_block32_1_conv (Conv2D)	(None, 7, 7, 128)	208,896	co
conv5_block32_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block32_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block32_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block32_concat (Concatenate)	(None, 7, 7, 1664)	0	co co
bn (BatchNormalization)	(None, 7, 7, 1664)	6,656	co
relu (Activation)	(None, 7, 7, 1664)	0	bn
reshape_23 (Reshape)	(None, 49, 1664)	0	re
multi_head_attention_11 (MultiHeadAttention)	(None, 49, 1664)	88,646,272	re re
reshape_24 (Reshape)	(None, 7, 7, 1664)	0	mu
gaussian_noise_22 (GaussianNoise)	(None, 7, 7, 1664)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 1664)	0	ga
dense_22 (Dense)	(None, 512)	852,480	gl
gaussian_noise_23 (GaussianNoise)	(None, 512)	0	de
dropout_23 (Dropout)	(None, 512)	0	ga

```
Total params: 102,142,145 (389.64 MB)
Trainable params: 89,499,265 (341.41 MB)
Non-trainable params: 12,642,880 (48.23 MB)
```

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

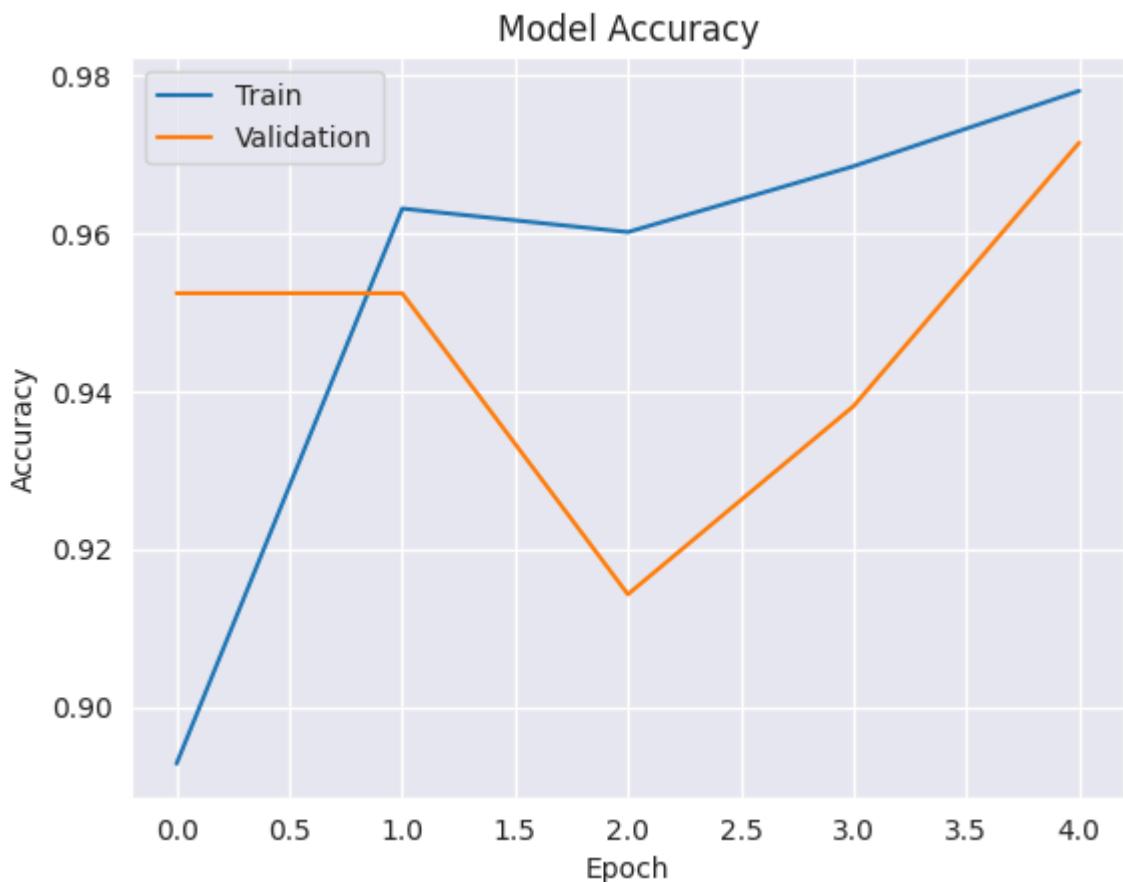
```
Epoch 1/5
105/105 515s 5s/step - accuracy: 0.7912 - loss: 0.4322 - val_accuracy: 0.9524 - val_loss: 0.1248
Epoch 2/5
105/105 484s 5s/step - accuracy: 0.9718 - loss: 0.1144 - val_accuracy: 0.9524 - val_loss: 0.1368
Epoch 3/5
105/105 485s 5s/step - accuracy: 0.9563 - loss: 0.1777 - val_accuracy: 0.9143 - val_loss: 0.2390
Epoch 4/5
105/105 482s 5s/step - accuracy: 0.9652 - loss: 0.1114 - val_accuracy: 0.9381 - val_loss: 0.1939
Epoch 5/5
105/105 484s 5s/step - accuracy: 0.9851 - loss: 0.0577 - val_accuracy: 0.9714 - val_loss: 0.1252
```

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for DenseNet169 => {inference_time:.4f} seconds")
```

```
Inference time for DenseNet169 => 2450.9802 seconds
```

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(  
print(Fore.GREEN + "Report for DenseNet169 Model => ")  
print(report))
```

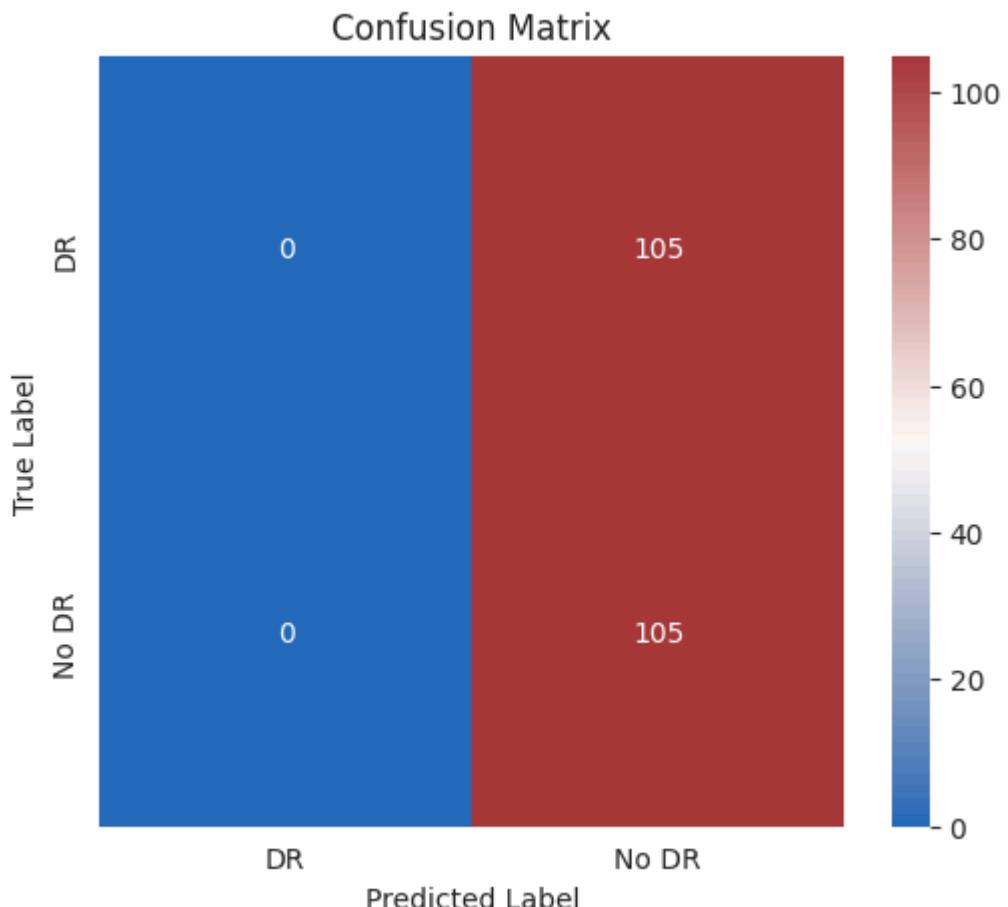
```
Report for DenseNet169 Model =>
      precision    recall  f1-score   support

          0       0.00     0.00     0.00     105
          1       0.50     1.00     0.67     105

   accuracy                           0.50     210
macro avg       0.25     0.50     0.33     210
weighted avg    0.25     0.50     0.33     210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)

plt.figure(figsize=(6, 5))
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='vlag', xticklabels=['DR', 'No DR'],
            yticklabels=['True Label', 'Predicted Label'])
plt.title('Confusion Matrix')
plt.show()
```



DenseNet201

```
In [ ]: def create_densenet201_model(input_shape):
    inputs = Input(shape=input_shape)

    base_model = DenseNet201(weights='imagenet', input_tensor=inputs, include_top=False)

    for layer in base_model.layers:
        layer.trainable = False
```

```
x = base_model.output

height, width, channels = 7, 7, 1920
x = Reshape((height * width, channels))(x)

attention_output = MultiHeadAttention(num_heads=8, key_dim=channels)(x, x)
attention_output = Reshape((height, width, channels))(attention_output)

x = GaussianNoise(0.25)(attention_output)

x = GlobalAveragePooling2D()(x)

x = Dense(512, activation='relu')(x)
x = GaussianNoise(0.25)(x)
x = Dropout(0.25)(x)

outputs = Dense(1, activation='sigmoid')(x)

model = Model(inputs=inputs, outputs=outputs)

return model

input_shape = (224, 224, 3)

cnn_model = create_densenet201_model(input_shape)

cnn_model.compile(optimizer=Adam(learning_rate=0.0001),
                  loss='binary_crossentropy',
                  metrics=['accuracy'])
```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/densenet/densenet201_weights_tf_dim_ordering_tf_kernels_notop.h5
74836368/74836368 0s 0us/step

In []: `cnn_model.summary()`

Model: "functional_12"

Layer (type)	Output Shape	Param #	Co
input_layer_13 (InputLayer)	(None, 224, 224, 3)	0	-
zero_padding2d_6 (ZeroPadding2D)	(None, 230, 230, 3)	0	in
conv1_conv (Conv2D)	(None, 112, 112, 64)	9,408	ze
conv1_bn (BatchNormalization)	(None, 112, 112, 64)	256	co
conv1_relu (Activation)	(None, 112, 112, 64)	0	co
zero_padding2d_7 (ZeroPadding2D)	(None, 114, 114, 64)	0	co
pool1 (MaxPooling2D)	(None, 56, 56, 64)	0	ze
conv2_block1_0_bn (BatchNormalization)	(None, 56, 56, 64)	256	po
conv2_block1_0_relu (Activation)	(None, 56, 56, 64)	0	co
conv2_block1_1_conv (Conv2D)	(None, 56, 56, 128)	8,192	co
conv2_block1_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block1_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block1_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block1_concat (Concatenate)	(None, 56, 56, 96)	0	po co
conv2_block2_0_bn (BatchNormalization)	(None, 56, 56, 96)	384	co
conv2_block2_0_relu (Activation)	(None, 56, 56, 96)	0	co
conv2_block2_1_conv (Conv2D)	(None, 56, 56, 128)	12,288	co
conv2_block2_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block2_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block2_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co

conv2_block2_concat (Concatenate)	(None, 56, 56, 128)	0	co co
conv2_block3_0_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block3_0_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block3_1_conv (Conv2D)	(None, 56, 56, 128)	16,384	co
conv2_block3_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block3_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block3_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block3_concat (Concatenate)	(None, 56, 56, 160)	0	co co
conv2_block4_0_bn (BatchNormalization)	(None, 56, 56, 160)	640	co
conv2_block4_0_relu (Activation)	(None, 56, 56, 160)	0	co
conv2_block4_1_conv (Conv2D)	(None, 56, 56, 128)	20,480	co
conv2_block4_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block4_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block4_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block4_concat (Concatenate)	(None, 56, 56, 192)	0	co co
conv2_block5_0_bn (BatchNormalization)	(None, 56, 56, 192)	768	co
conv2_block5_0_relu (Activation)	(None, 56, 56, 192)	0	co
conv2_block5_1_conv (Conv2D)	(None, 56, 56, 128)	24,576	co
conv2_block5_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block5_1_relu (Activation)	(None, 56, 56, 128)	0	co

conv2_block5_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block5_concat (Concatenate)	(None, 56, 56, 224)	0	co co
conv2_block6_0_bn (BatchNormalization)	(None, 56, 56, 224)	896	co
conv2_block6_0_relu (Activation)	(None, 56, 56, 224)	0	co
conv2_block6_1_conv (Conv2D)	(None, 56, 56, 128)	28,672	co
conv2_block6_1_bn (BatchNormalization)	(None, 56, 56, 128)	512	co
conv2_block6_1_relu (Activation)	(None, 56, 56, 128)	0	co
conv2_block6_2_conv (Conv2D)	(None, 56, 56, 32)	36,864	co
conv2_block6_concat (Concatenate)	(None, 56, 56, 256)	0	co co
pool2_bn (BatchNormalization)	(None, 56, 56, 256)	1,024	co
pool2_relu (Activation)	(None, 56, 56, 256)	0	po
pool2_conv (Conv2D)	(None, 56, 56, 128)	32,768	po
pool2_pool (AveragePooling2D)	(None, 28, 28, 128)	0	po
conv3_block1_0_bn (BatchNormalization)	(None, 28, 28, 128)	512	po
conv3_block1_0_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_1_conv (Conv2D)	(None, 28, 28, 128)	16,384	co
conv3_block1_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block1_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block1_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block1_concat (Concatenate)	(None, 28, 28, 160)	0	po co
conv3_block2_0_bn (BatchNormalization)	(None, 28, 28, 160)	640	co

conv3_block2_0_relu (Activation)	(None, 28, 28, 160)	0	co
conv3_block2_1_conv (Conv2D)	(None, 28, 28, 128)	20,480	co
conv3_block2_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block2_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block2_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block2_concat (Concatenate)	(None, 28, 28, 192)	0	co co
conv3_block3_0_bn (BatchNormalization)	(None, 28, 28, 192)	768	co
conv3_block3_0_relu (Activation)	(None, 28, 28, 192)	0	co
conv3_block3_1_conv (Conv2D)	(None, 28, 28, 128)	24,576	co
conv3_block3_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block3_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block3_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block3_concat (Concatenate)	(None, 28, 28, 224)	0	co co
conv3_block4_0_bn (BatchNormalization)	(None, 28, 28, 224)	896	co
conv3_block4_0_relu (Activation)	(None, 28, 28, 224)	0	co
conv3_block4_1_conv (Conv2D)	(None, 28, 28, 128)	28,672	co
conv3_block4_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block4_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block4_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block4_concat (Concatenate)	(None, 28, 28, 256)	0	co co

conv3_block5_0_bn (BatchNormalization)	(None, 28, 28, 256)	1,024	co
conv3_block5_0_relu (Activation)	(None, 28, 28, 256)	0	co
conv3_block5_1_conv (Conv2D)	(None, 28, 28, 128)	32,768	co
conv3_block5_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block5_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block5_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block5_concat (Concatenate)	(None, 28, 28, 288)	0	co co
conv3_block6_0_bn (BatchNormalization)	(None, 28, 28, 288)	1,152	co
conv3_block6_0_relu (Activation)	(None, 28, 28, 288)	0	co
conv3_block6_1_conv (Conv2D)	(None, 28, 28, 128)	36,864	co
conv3_block6_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block6_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block6_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block6_concat (Concatenate)	(None, 28, 28, 320)	0	co co
conv3_block7_0_bn (BatchNormalization)	(None, 28, 28, 320)	1,280	co
conv3_block7_0_relu (Activation)	(None, 28, 28, 320)	0	co
conv3_block7_1_conv (Conv2D)	(None, 28, 28, 128)	40,960	co
conv3_block7_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block7_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block7_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co

conv3_block7_concat (Concatenate)	(None, 28, 28, 352)	0	co co
conv3_block8_0_bn (BatchNormalization)	(None, 28, 28, 352)	1,408	co
conv3_block8_0_relu (Activation)	(None, 28, 28, 352)	0	co
conv3_block8_1_conv (Conv2D)	(None, 28, 28, 128)	45,056	co
conv3_block8_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block8_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block8_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block8_concat (Concatenate)	(None, 28, 28, 384)	0	co co
conv3_block9_0_bn (BatchNormalization)	(None, 28, 28, 384)	1,536	co
conv3_block9_0_relu (Activation)	(None, 28, 28, 384)	0	co
conv3_block9_1_conv (Conv2D)	(None, 28, 28, 128)	49,152	co
conv3_block9_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block9_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block9_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block9_concat (Concatenate)	(None, 28, 28, 416)	0	co co
conv3_block10_0_bn (BatchNormalization)	(None, 28, 28, 416)	1,664	co
conv3_block10_0_relu (Activation)	(None, 28, 28, 416)	0	co
conv3_block10_1_conv (Conv2D)	(None, 28, 28, 128)	53,248	co
conv3_block10_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block10_1_relu (Activation)	(None, 28, 28, 128)	0	co

conv3_block10_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block10_concat (Concatenate)	(None, 28, 28, 448)	0	co co
conv3_block11_0_bn (BatchNormalization)	(None, 28, 28, 448)	1,792	co
conv3_block11_0_relu (Activation)	(None, 28, 28, 448)	0	co
conv3_block11_1_conv (Conv2D)	(None, 28, 28, 128)	57,344	co
conv3_block11_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block11_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block11_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block11_concat (Concatenate)	(None, 28, 28, 480)	0	co co
conv3_block12_0_bn (BatchNormalization)	(None, 28, 28, 480)	1,920	co
conv3_block12_0_relu (Activation)	(None, 28, 28, 480)	0	co
conv3_block12_1_conv (Conv2D)	(None, 28, 28, 128)	61,440	co
conv3_block12_1_bn (BatchNormalization)	(None, 28, 28, 128)	512	co
conv3_block12_1_relu (Activation)	(None, 28, 28, 128)	0	co
conv3_block12_2_conv (Conv2D)	(None, 28, 28, 32)	36,864	co
conv3_block12_concat (Concatenate)	(None, 28, 28, 512)	0	co co
pool3_bn (BatchNormalization)	(None, 28, 28, 512)	2,048	co
pool3_relu (Activation)	(None, 28, 28, 512)	0	po
pool3_conv (Conv2D)	(None, 28, 28, 256)	131,072	po
pool3_pool (AveragePooling2D)	(None, 14, 14, 256)	0	po
conv4_block1_0_bn	(None, 14, 14, 256)	1,024	po

(BatchNormalization)				
conv4_block1_0_relu (Activation)	(None, 14, 14, 256)	0	co	
conv4_block1_1_conv (Conv2D)	(None, 14, 14, 128)	32,768	co	
conv4_block1_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block1_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block1_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block1_concat (Concatenate)	(None, 14, 14, 288)	0	po co	
conv4_block2_0_bn (BatchNormalization)	(None, 14, 14, 288)	1,152	co	
conv4_block2_0_relu (Activation)	(None, 14, 14, 288)	0	co	
conv4_block2_1_conv (Conv2D)	(None, 14, 14, 128)	36,864	co	
conv4_block2_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block2_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block2_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block2_concat (Concatenate)	(None, 14, 14, 320)	0	co co	
conv4_block3_0_bn (BatchNormalization)	(None, 14, 14, 320)	1,280	co	
conv4_block3_0_relu (Activation)	(None, 14, 14, 320)	0	co	
conv4_block3_1_conv (Conv2D)	(None, 14, 14, 128)	40,960	co	
conv4_block3_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block3_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block3_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block3_concat	(None, 14, 14, 352)	0	co	

(Concatenate)			co
conv4_block4_0_bn (BatchNormalization)	(None, 14, 14, 352)	1,408	co
conv4_block4_0_relu (Activation)	(None, 14, 14, 352)	0	co
conv4_block4_1_conv (Conv2D)	(None, 14, 14, 128)	45,056	co
conv4_block4_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block4_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block4_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block4_concat (Concatenate)	(None, 14, 14, 384)	0	co
conv4_block4_concat (Concatenate)		co	
conv4_block5_0_bn (BatchNormalization)	(None, 14, 14, 384)	1,536	co
conv4_block5_0_relu (Activation)	(None, 14, 14, 384)	0	co
conv4_block5_1_conv (Conv2D)	(None, 14, 14, 128)	49,152	co
conv4_block5_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block5_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block5_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block5_concat (Concatenate)	(None, 14, 14, 416)	0	co
conv4_block5_concat (Concatenate)		co	
conv4_block6_0_bn (BatchNormalization)	(None, 14, 14, 416)	1,664	co
conv4_block6_0_relu (Activation)	(None, 14, 14, 416)	0	co
conv4_block6_1_conv (Conv2D)	(None, 14, 14, 128)	53,248	co
conv4_block6_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block6_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block6_2_conv	(None, 14, 14, 32)	36,864	co

(Conv2D)				
conv4_block6_concat (Concatenate)	(None, 14, 14, 448)	0	co	co
conv4_block7_0_bn (BatchNormalization)	(None, 14, 14, 448)	1,792	co	
conv4_block7_0_relu (Activation)	(None, 14, 14, 448)	0	co	
conv4_block7_1_conv (Conv2D)	(None, 14, 14, 128)	57,344	co	
conv4_block7_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block7_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block7_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block7_concat (Concatenate)	(None, 14, 14, 480)	0	co	co
conv4_block8_0_bn (BatchNormalization)	(None, 14, 14, 480)	1,920	co	
conv4_block8_0_relu (Activation)	(None, 14, 14, 480)	0	co	
conv4_block8_1_conv (Conv2D)	(None, 14, 14, 128)	61,440	co	
conv4_block8_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block8_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block8_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block8_concat (Concatenate)	(None, 14, 14, 512)	0	co	co
conv4_block9_0_bn (BatchNormalization)	(None, 14, 14, 512)	2,048	co	
conv4_block9_0_relu (Activation)	(None, 14, 14, 512)	0	co	
conv4_block9_1_conv (Conv2D)	(None, 14, 14, 128)	65,536	co	
conv4_block9_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block9_1_relu	(None, 14, 14, 128)	0	co	

(Activation)			
conv4_block9_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block9_concat (Concatenate)	(None, 14, 14, 544)	0	co co
conv4_block10_0_bn (BatchNormalization)	(None, 14, 14, 544)	2,176	co
conv4_block10_0_relu (Activation)	(None, 14, 14, 544)	0	co
conv4_block10_1_conv (Conv2D)	(None, 14, 14, 128)	69,632	co
conv4_block10_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block10_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block10_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block10_concat (Concatenate)	(None, 14, 14, 576)	0	co co
conv4_block11_0_bn (BatchNormalization)	(None, 14, 14, 576)	2,304	co
conv4_block11_0_relu (Activation)	(None, 14, 14, 576)	0	co
conv4_block11_1_conv (Conv2D)	(None, 14, 14, 128)	73,728	co
conv4_block11_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block11_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block11_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block11_concat (Concatenate)	(None, 14, 14, 608)	0	co co
conv4_block12_0_bn (BatchNormalization)	(None, 14, 14, 608)	2,432	co
conv4_block12_0_relu (Activation)	(None, 14, 14, 608)	0	co
conv4_block12_1_conv (Conv2D)	(None, 14, 14, 128)	77,824	co
conv4_block12_1_bn	(None, 14, 14, 128)	512	co

(BatchNormalization)				
conv4_block12_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block12_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block12_concat (Concatenate)	(None, 14, 14, 640)	0	co	co
conv4_block13_0_bn (BatchNormalization)	(None, 14, 14, 640)	2,560	co	
conv4_block13_0_relu (Activation)	(None, 14, 14, 640)	0	co	
conv4_block13_1_conv (Conv2D)	(None, 14, 14, 128)	81,920	co	
conv4_block13_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block13_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block13_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block13_concat (Concatenate)	(None, 14, 14, 672)	0	co	co
conv4_block14_0_bn (BatchNormalization)	(None, 14, 14, 672)	2,688	co	
conv4_block14_0_relu (Activation)	(None, 14, 14, 672)	0	co	
conv4_block14_1_conv (Conv2D)	(None, 14, 14, 128)	86,016	co	
conv4_block14_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block14_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block14_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block14_concat (Concatenate)	(None, 14, 14, 704)	0	co	co
conv4_block15_0_bn (BatchNormalization)	(None, 14, 14, 704)	2,816	co	
conv4_block15_0_relu (Activation)	(None, 14, 14, 704)	0	co	
conv4_block15_1_conv	(None, 14, 14, 128)	90,112	co	

(Conv2D)				
conv4_block15_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block15_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block15_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block15_concat (Concatenate)	(None, 14, 14, 736)	0	co	co
conv4_block16_0_bn (BatchNormalization)	(None, 14, 14, 736)	2,944	co	
conv4_block16_0_relu (Activation)	(None, 14, 14, 736)	0	co	
conv4_block16_1_conv (Conv2D)	(None, 14, 14, 128)	94,208	co	
conv4_block16_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block16_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block16_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block16_concat (Concatenate)	(None, 14, 14, 768)	0	co	co
conv4_block17_0_bn (BatchNormalization)	(None, 14, 14, 768)	3,072	co	
conv4_block17_0_relu (Activation)	(None, 14, 14, 768)	0	co	
conv4_block17_1_conv (Conv2D)	(None, 14, 14, 128)	98,304	co	
conv4_block17_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block17_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block17_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block17_concat (Concatenate)	(None, 14, 14, 800)	0	co	co
conv4_block18_0_bn (BatchNormalization)	(None, 14, 14, 800)	3,200	co	
conv4_block18_0_relu	(None, 14, 14, 800)	0	co	

(Activation)			
conv4_block18_1_conv (Conv2D)	(None, 14, 14, 128)	102,400	co
conv4_block18_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block18_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block18_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block18_concat (Concatenate)	(None, 14, 14, 832)	0	co
conv4_block19_0_bn (BatchNormalization)	(None, 14, 14, 832)	3,328	co
conv4_block19_0_relu (Activation)	(None, 14, 14, 832)	0	co
conv4_block19_1_conv (Conv2D)	(None, 14, 14, 128)	106,496	co
conv4_block19_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block19_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block19_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block19_concat (Concatenate)	(None, 14, 14, 864)	0	co
conv4_block20_0_bn (BatchNormalization)	(None, 14, 14, 864)	3,456	co
conv4_block20_0_relu (Activation)	(None, 14, 14, 864)	0	co
conv4_block20_1_conv (Conv2D)	(None, 14, 14, 128)	110,592	co
conv4_block20_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block20_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block20_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block20_concat (Concatenate)	(None, 14, 14, 896)	0	co
conv4_block21_0_bn	(None, 14, 14, 896)	3,584	co

(BatchNormalization)				
conv4_block21_0_relu (Activation)	(None, 14, 14, 896)	0	co	
conv4_block21_1_conv (Conv2D)	(None, 14, 14, 128)	114,688	co	
conv4_block21_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block21_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block21_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block21_concat (Concatenate)	(None, 14, 14, 928)	0	co	co
conv4_block22_0_bn (BatchNormalization)	(None, 14, 14, 928)	3,712	co	
conv4_block22_0_relu (Activation)	(None, 14, 14, 928)	0	co	
conv4_block22_1_conv (Conv2D)	(None, 14, 14, 128)	118,784	co	
conv4_block22_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block22_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block22_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block22_concat (Concatenate)	(None, 14, 14, 960)	0	co	co
conv4_block23_0_bn (BatchNormalization)	(None, 14, 14, 960)	3,840	co	
conv4_block23_0_relu (Activation)	(None, 14, 14, 960)	0	co	
conv4_block23_1_conv (Conv2D)	(None, 14, 14, 128)	122,880	co	
conv4_block23_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block23_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block23_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block23_concat	(None, 14, 14, 992)	0	co	

(Concatenate)				co
conv4_block24_0_bn (BatchNormalization)	(None, 14, 14, 992)	3,968	0	co
conv4_block24_0_relu (Activation)	(None, 14, 14, 992)	0	0	co
conv4_block24_1_conv (Conv2D)	(None, 14, 14, 128)	126,976	0	co
conv4_block24_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	0	co
conv4_block24_1_relu (Activation)	(None, 14, 14, 128)	0	0	co
conv4_block24_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	0	co
conv4_block24_concat (Concatenate)	(None, 14, 14, 1024)	0	0	co
conv4_block25_0_bn (BatchNormalization)	(None, 14, 14, 1024)	4,096	0	co
conv4_block25_0_relu (Activation)	(None, 14, 14, 1024)	0	0	co
conv4_block25_1_conv (Conv2D)	(None, 14, 14, 128)	131,072	0	co
conv4_block25_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	0	co
conv4_block25_1_relu (Activation)	(None, 14, 14, 128)	0	0	co
conv4_block25_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	0	co
conv4_block25_concat (Concatenate)	(None, 14, 14, 1056)	0	0	co
conv4_block26_0_bn (BatchNormalization)	(None, 14, 14, 1056)	4,224	0	co
conv4_block26_0_relu (Activation)	(None, 14, 14, 1056)	0	0	co
conv4_block26_1_conv (Conv2D)	(None, 14, 14, 128)	135,168	0	co
conv4_block26_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	0	co
conv4_block26_1_relu (Activation)	(None, 14, 14, 128)	0	0	co
conv4_block26_2_conv	(None, 14, 14, 32)	36,864	0	co

(Conv2D)				
conv4_block26_concat (Concatenate)	(None, 14, 14, 1088)	0	co	co
conv4_block27_0_bn (BatchNormalization)	(None, 14, 14, 1088)	4,352	co	
conv4_block27_0_relu (Activation)	(None, 14, 14, 1088)	0	co	
conv4_block27_1_conv (Conv2D)	(None, 14, 14, 128)	139,264	co	
conv4_block27_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block27_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block27_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block27_concat (Concatenate)	(None, 14, 14, 1120)	0	co	co
conv4_block28_0_bn (BatchNormalization)	(None, 14, 14, 1120)	4,480	co	
conv4_block28_0_relu (Activation)	(None, 14, 14, 1120)	0	co	
conv4_block28_1_conv (Conv2D)	(None, 14, 14, 128)	143,360	co	
conv4_block28_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block28_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block28_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block28_concat (Concatenate)	(None, 14, 14, 1152)	0	co	co
conv4_block29_0_bn (BatchNormalization)	(None, 14, 14, 1152)	4,608	co	
conv4_block29_0_relu (Activation)	(None, 14, 14, 1152)	0	co	
conv4_block29_1_conv (Conv2D)	(None, 14, 14, 128)	147,456	co	
conv4_block29_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block29_1_relu	(None, 14, 14, 128)	0	co	

(Activation)			
conv4_block29_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block29_concat (Concatenate)	(None, 14, 14, 1184)	0	co co
conv4_block30_0_bn (BatchNormalization)	(None, 14, 14, 1184)	4,736	co
conv4_block30_0_relu (Activation)	(None, 14, 14, 1184)	0	co
conv4_block30_1_conv (Conv2D)	(None, 14, 14, 128)	151,552	co
conv4_block30_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block30_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block30_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block30_concat (Concatenate)	(None, 14, 14, 1216)	0	co co
conv4_block31_0_bn (BatchNormalization)	(None, 14, 14, 1216)	4,864	co
conv4_block31_0_relu (Activation)	(None, 14, 14, 1216)	0	co
conv4_block31_1_conv (Conv2D)	(None, 14, 14, 128)	155,648	co
conv4_block31_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block31_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block31_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block31_concat (Concatenate)	(None, 14, 14, 1248)	0	co co
conv4_block32_0_bn (BatchNormalization)	(None, 14, 14, 1248)	4,992	co
conv4_block32_0_relu (Activation)	(None, 14, 14, 1248)	0	co
conv4_block32_1_conv (Conv2D)	(None, 14, 14, 128)	159,744	co
conv4_block32_1_bn	(None, 14, 14, 128)	512	co

(BatchNormalization)				
conv4_block32_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block32_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block32_concat (Concatenate)	(None, 14, 14, 1280)	0	co	co
conv4_block33_0_bn (BatchNormalization)	(None, 14, 14, 1280)	5,120	co	
conv4_block33_0_relu (Activation)	(None, 14, 14, 1280)	0	co	
conv4_block33_1_conv (Conv2D)	(None, 14, 14, 128)	163,840	co	
conv4_block33_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block33_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block33_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block33_concat (Concatenate)	(None, 14, 14, 1312)	0	co	co
conv4_block34_0_bn (BatchNormalization)	(None, 14, 14, 1312)	5,248	co	
conv4_block34_0_relu (Activation)	(None, 14, 14, 1312)	0	co	
conv4_block34_1_conv (Conv2D)	(None, 14, 14, 128)	167,936	co	
conv4_block34_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block34_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block34_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block34_concat (Concatenate)	(None, 14, 14, 1344)	0	co	co
conv4_block35_0_bn (BatchNormalization)	(None, 14, 14, 1344)	5,376	co	
conv4_block35_0_relu (Activation)	(None, 14, 14, 1344)	0	co	
conv4_block35_1_conv	(None, 14, 14, 128)	172,032	co	

(Conv2D)				
conv4_block35_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block35_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block35_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block35_concat (Concatenate)	(None, 14, 14, 1376)	0	co	co
conv4_block36_0_bn (BatchNormalization)	(None, 14, 14, 1376)	5,504	co	
conv4_block36_0_relu (Activation)	(None, 14, 14, 1376)	0	co	
conv4_block36_1_conv (Conv2D)	(None, 14, 14, 128)	176,128	co	
conv4_block36_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block36_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block36_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block36_concat (Concatenate)	(None, 14, 14, 1408)	0	co	co
conv4_block37_0_bn (BatchNormalization)	(None, 14, 14, 1408)	5,632	co	
conv4_block37_0_relu (Activation)	(None, 14, 14, 1408)	0	co	
conv4_block37_1_conv (Conv2D)	(None, 14, 14, 128)	180,224	co	
conv4_block37_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block37_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block37_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block37_concat (Concatenate)	(None, 14, 14, 1440)	0	co	co
conv4_block38_0_bn (BatchNormalization)	(None, 14, 14, 1440)	5,760	co	
conv4_block38_0_relu	(None, 14, 14, 1440)	0	co	

(Activation)			
conv4_block38_1_conv (Conv2D)	(None, 14, 14, 128)	184,320	co
conv4_block38_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block38_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block38_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block38_concat (Concatenate)	(None, 14, 14, 1472)	0	co
conv4_block39_0_bn (BatchNormalization)	(None, 14, 14, 1472)	5,888	co
conv4_block39_0_relu (Activation)	(None, 14, 14, 1472)	0	co
conv4_block39_1_conv (Conv2D)	(None, 14, 14, 128)	188,416	co
conv4_block39_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block39_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block39_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block39_concat (Concatenate)	(None, 14, 14, 1504)	0	co
conv4_block40_0_bn (BatchNormalization)	(None, 14, 14, 1504)	6,016	co
conv4_block40_0_relu (Activation)	(None, 14, 14, 1504)	0	co
conv4_block40_1_conv (Conv2D)	(None, 14, 14, 128)	192,512	co
conv4_block40_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block40_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block40_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block40_concat (Concatenate)	(None, 14, 14, 1536)	0	co
conv4_block41_0_bn	(None, 14, 14, 1536)	6,144	co

(BatchNormalization)				
conv4_block41_0_relu (Activation)	(None, 14, 14, 1536)	0	co	
conv4_block41_1_conv (Conv2D)	(None, 14, 14, 128)	196,608	co	
conv4_block41_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block41_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block41_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block41_concat (Concatenate)	(None, 14, 14, 1568)	0	co	co
conv4_block42_0_bn (BatchNormalization)	(None, 14, 14, 1568)	6,272	co	
conv4_block42_0_relu (Activation)	(None, 14, 14, 1568)	0	co	
conv4_block42_1_conv (Conv2D)	(None, 14, 14, 128)	200,704	co	
conv4_block42_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block42_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block42_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block42_concat (Concatenate)	(None, 14, 14, 1600)	0	co	co
conv4_block43_0_bn (BatchNormalization)	(None, 14, 14, 1600)	6,400	co	
conv4_block43_0_relu (Activation)	(None, 14, 14, 1600)	0	co	
conv4_block43_1_conv (Conv2D)	(None, 14, 14, 128)	204,800	co	
conv4_block43_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block43_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block43_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block43_concat	(None, 14, 14, 1632)	0	co	

(Concatenate)			co
conv4_block44_0_bn (BatchNormalization)	(None, 14, 14, 1632)	6,528	co
conv4_block44_0_relu (Activation)	(None, 14, 14, 1632)	0	co
conv4_block44_1_conv (Conv2D)	(None, 14, 14, 128)	208,896	co
conv4_block44_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block44_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block44_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block44_concat (Concatenate)	(None, 14, 14, 1664)	0	co
conv4_block44_concat (Concatenate)		co	
conv4_block45_0_bn (BatchNormalization)	(None, 14, 14, 1664)	6,656	co
conv4_block45_0_relu (Activation)	(None, 14, 14, 1664)	0	co
conv4_block45_1_conv (Conv2D)	(None, 14, 14, 128)	212,992	co
conv4_block45_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block45_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block45_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co
conv4_block45_concat (Concatenate)	(None, 14, 14, 1696)	0	co
conv4_block45_concat (Concatenate)		co	
conv4_block46_0_bn (BatchNormalization)	(None, 14, 14, 1696)	6,784	co
conv4_block46_0_relu (Activation)	(None, 14, 14, 1696)	0	co
conv4_block46_1_conv (Conv2D)	(None, 14, 14, 128)	217,088	co
conv4_block46_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co
conv4_block46_1_relu (Activation)	(None, 14, 14, 128)	0	co
conv4_block46_2_conv	(None, 14, 14, 32)	36,864	co

(Conv2D)				
conv4_block46_concat (Concatenate)	(None, 14, 14, 1728)	0	co	co
conv4_block47_0_bn (BatchNormalization)	(None, 14, 14, 1728)	6,912	co	
conv4_block47_0_relu (Activation)	(None, 14, 14, 1728)	0	co	
conv4_block47_1_conv (Conv2D)	(None, 14, 14, 128)	221,184	co	
conv4_block47_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block47_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block47_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block47_concat (Concatenate)	(None, 14, 14, 1760)	0	co	co
conv4_block48_0_bn (BatchNormalization)	(None, 14, 14, 1760)	7,040	co	
conv4_block48_0_relu (Activation)	(None, 14, 14, 1760)	0	co	
conv4_block48_1_conv (Conv2D)	(None, 14, 14, 128)	225,280	co	
conv4_block48_1_bn (BatchNormalization)	(None, 14, 14, 128)	512	co	
conv4_block48_1_relu (Activation)	(None, 14, 14, 128)	0	co	
conv4_block48_2_conv (Conv2D)	(None, 14, 14, 32)	36,864	co	
conv4_block48_concat (Concatenate)	(None, 14, 14, 1792)	0	co	co
pool4_bn (BatchNormalization)	(None, 14, 14, 1792)	7,168	co	
pool4_relu (Activation)	(None, 14, 14, 1792)	0	po	
pool4_conv (Conv2D)	(None, 14, 14, 896)	1,605,632	po	
pool4_pool (AveragePooling2D)	(None, 7, 7, 896)	0	po	
conv5_block1_0_bn (BatchNormalization)	(None, 7, 7, 896)	3,584	po	

conv5_block1_0_relu (Activation)	(None, 7, 7, 896)	0	co
conv5_block1_1_conv (Conv2D)	(None, 7, 7, 128)	114,688	co
conv5_block1_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block1_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block1_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block1_concat (Concatenate)	(None, 7, 7, 928)	0	po co
conv5_block2_0_bn (BatchNormalization)	(None, 7, 7, 928)	3,712	co
conv5_block2_0_relu (Activation)	(None, 7, 7, 928)	0	co
conv5_block2_1_conv (Conv2D)	(None, 7, 7, 128)	118,784	co
conv5_block2_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block2_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block2_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block2_concat (Concatenate)	(None, 7, 7, 960)	0	co co
conv5_block3_0_bn (BatchNormalization)	(None, 7, 7, 960)	3,840	co
conv5_block3_0_relu (Activation)	(None, 7, 7, 960)	0	co
conv5_block3_1_conv (Conv2D)	(None, 7, 7, 128)	122,880	co
conv5_block3_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block3_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block3_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block3_concat (Concatenate)	(None, 7, 7, 992)	0	co co

conv5_block4_0_bn (BatchNormalization)	(None, 7, 7, 992)	3,968	co
conv5_block4_0_relu (Activation)	(None, 7, 7, 992)	0	co
conv5_block4_1_conv (Conv2D)	(None, 7, 7, 128)	126,976	co
conv5_block4_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block4_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block4_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block4_concat (Concatenate)	(None, 7, 7, 1024)	0	co co
conv5_block5_0_bn (BatchNormalization)	(None, 7, 7, 1024)	4,096	co
conv5_block5_0_relu (Activation)	(None, 7, 7, 1024)	0	co
conv5_block5_1_conv (Conv2D)	(None, 7, 7, 128)	131,072	co
conv5_block5_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block5_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block5_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block5_concat (Concatenate)	(None, 7, 7, 1056)	0	co co
conv5_block6_0_bn (BatchNormalization)	(None, 7, 7, 1056)	4,224	co
conv5_block6_0_relu (Activation)	(None, 7, 7, 1056)	0	co
conv5_block6_1_conv (Conv2D)	(None, 7, 7, 128)	135,168	co
conv5_block6_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block6_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block6_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co

conv5_block6_concat (Concatenate)	(None, 7, 7, 1088)	0	co co
conv5_block7_0_bn (BatchNormalization)	(None, 7, 7, 1088)	4,352	co
conv5_block7_0_relu (Activation)	(None, 7, 7, 1088)	0	co
conv5_block7_1_conv (Conv2D)	(None, 7, 7, 128)	139,264	co
conv5_block7_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block7_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block7_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block7_concat (Concatenate)	(None, 7, 7, 1120)	0	co co
conv5_block8_0_bn (BatchNormalization)	(None, 7, 7, 1120)	4,480	co
conv5_block8_0_relu (Activation)	(None, 7, 7, 1120)	0	co
conv5_block8_1_conv (Conv2D)	(None, 7, 7, 128)	143,360	co
conv5_block8_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block8_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block8_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block8_concat (Concatenate)	(None, 7, 7, 1152)	0	co co
conv5_block9_0_bn (BatchNormalization)	(None, 7, 7, 1152)	4,608	co
conv5_block9_0_relu (Activation)	(None, 7, 7, 1152)	0	co
conv5_block9_1_conv (Conv2D)	(None, 7, 7, 128)	147,456	co
conv5_block9_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block9_1_relu (Activation)	(None, 7, 7, 128)	0	co

conv5_block9_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block9_concat (Concatenate)	(None, 7, 7, 1184)	0	co co
conv5_block10_0_bn (BatchNormalization)	(None, 7, 7, 1184)	4,736	co
conv5_block10_0_relu (Activation)	(None, 7, 7, 1184)	0	co
conv5_block10_1_conv (Conv2D)	(None, 7, 7, 128)	151,552	co
conv5_block10_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block10_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block10_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block10_concat (Concatenate)	(None, 7, 7, 1216)	0	co co
conv5_block11_0_bn (BatchNormalization)	(None, 7, 7, 1216)	4,864	co
conv5_block11_0_relu (Activation)	(None, 7, 7, 1216)	0	co
conv5_block11_1_conv (Conv2D)	(None, 7, 7, 128)	155,648	co
conv5_block11_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block11_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block11_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block11_concat (Concatenate)	(None, 7, 7, 1248)	0	co co
conv5_block12_0_bn (BatchNormalization)	(None, 7, 7, 1248)	4,992	co
conv5_block12_0_relu (Activation)	(None, 7, 7, 1248)	0	co
conv5_block12_1_conv (Conv2D)	(None, 7, 7, 128)	159,744	co
conv5_block12_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co

conv5_block12_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block12_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block12_concat (Concatenate)	(None, 7, 7, 1280)	0	co co
conv5_block13_0_bn (BatchNormalization)	(None, 7, 7, 1280)	5,120	co
conv5_block13_0_relu (Activation)	(None, 7, 7, 1280)	0	co
conv5_block13_1_conv (Conv2D)	(None, 7, 7, 128)	163,840	co
conv5_block13_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block13_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block13_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block13_concat (Concatenate)	(None, 7, 7, 1312)	0	co co
conv5_block14_0_bn (BatchNormalization)	(None, 7, 7, 1312)	5,248	co
conv5_block14_0_relu (Activation)	(None, 7, 7, 1312)	0	co
conv5_block14_1_conv (Conv2D)	(None, 7, 7, 128)	167,936	co
conv5_block14_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block14_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block14_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block14_concat (Concatenate)	(None, 7, 7, 1344)	0	co co
conv5_block15_0_bn (BatchNormalization)	(None, 7, 7, 1344)	5,376	co
conv5_block15_0_relu (Activation)	(None, 7, 7, 1344)	0	co
conv5_block15_1_conv (Conv2D)	(None, 7, 7, 128)	172,032	co

conv5_block15_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block15_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block15_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block15_concat (Concatenate)	(None, 7, 7, 1376)	0	co co
conv5_block16_0_bn (BatchNormalization)	(None, 7, 7, 1376)	5,504	co
conv5_block16_0_relu (Activation)	(None, 7, 7, 1376)	0	co
conv5_block16_1_conv (Conv2D)	(None, 7, 7, 128)	176,128	co
conv5_block16_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block16_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block16_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block16_concat (Concatenate)	(None, 7, 7, 1408)	0	co co
conv5_block17_0_bn (BatchNormalization)	(None, 7, 7, 1408)	5,632	co
conv5_block17_0_relu (Activation)	(None, 7, 7, 1408)	0	co
conv5_block17_1_conv (Conv2D)	(None, 7, 7, 128)	180,224	co
conv5_block17_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block17_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block17_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block17_concat (Concatenate)	(None, 7, 7, 1440)	0	co co
conv5_block18_0_bn (BatchNormalization)	(None, 7, 7, 1440)	5,760	co
conv5_block18_0_relu (Activation)	(None, 7, 7, 1440)	0	co

conv5_block18_1_conv (Conv2D)	(None, 7, 7, 128)	184,320	co
conv5_block18_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block18_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block18_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block18_concat (Concatenate)	(None, 7, 7, 1472)	0	co
conv5_block19_0_bn (BatchNormalization)	(None, 7, 7, 1472)	5,888	co
conv5_block19_0_relu (Activation)	(None, 7, 7, 1472)	0	co
conv5_block19_1_conv (Conv2D)	(None, 7, 7, 128)	188,416	co
conv5_block19_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block19_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block19_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block19_concat (Concatenate)	(None, 7, 7, 1504)	0	co
conv5_block20_0_bn (BatchNormalization)	(None, 7, 7, 1504)	6,016	co
conv5_block20_0_relu (Activation)	(None, 7, 7, 1504)	0	co
conv5_block20_1_conv (Conv2D)	(None, 7, 7, 128)	192,512	co
conv5_block20_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block20_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block20_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block20_concat (Concatenate)	(None, 7, 7, 1536)	0	co
conv5_block21_0_bn (BatchNormalization)	(None, 7, 7, 1536)	6,144	co

conv5_block21_0_relu (Activation)	(None, 7, 7, 1536)	0	co
conv5_block21_1_conv (Conv2D)	(None, 7, 7, 128)	196,608	co
conv5_block21_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block21_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block21_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block21_concat (Concatenate)	(None, 7, 7, 1568)	0	co co
conv5_block22_0_bn (BatchNormalization)	(None, 7, 7, 1568)	6,272	co
conv5_block22_0_relu (Activation)	(None, 7, 7, 1568)	0	co
conv5_block22_1_conv (Conv2D)	(None, 7, 7, 128)	200,704	co
conv5_block22_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block22_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block22_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block22_concat (Concatenate)	(None, 7, 7, 1600)	0	co co
conv5_block23_0_bn (BatchNormalization)	(None, 7, 7, 1600)	6,400	co
conv5_block23_0_relu (Activation)	(None, 7, 7, 1600)	0	co
conv5_block23_1_conv (Conv2D)	(None, 7, 7, 128)	204,800	co
conv5_block23_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block23_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block23_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block23_concat (Concatenate)	(None, 7, 7, 1632)	0	co co

conv5_block24_0_bn (BatchNormalization)	(None, 7, 7, 1632)	6,528	co
conv5_block24_0_relu (Activation)	(None, 7, 7, 1632)	0	co
conv5_block24_1_conv (Conv2D)	(None, 7, 7, 128)	208,896	co
conv5_block24_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block24_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block24_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block24_concat (Concatenate)	(None, 7, 7, 1664)	0	co co
conv5_block25_0_bn (BatchNormalization)	(None, 7, 7, 1664)	6,656	co
conv5_block25_0_relu (Activation)	(None, 7, 7, 1664)	0	co
conv5_block25_1_conv (Conv2D)	(None, 7, 7, 128)	212,992	co
conv5_block25_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block25_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block25_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block25_concat (Concatenate)	(None, 7, 7, 1696)	0	co co
conv5_block26_0_bn (BatchNormalization)	(None, 7, 7, 1696)	6,784	co
conv5_block26_0_relu (Activation)	(None, 7, 7, 1696)	0	co
conv5_block26_1_conv (Conv2D)	(None, 7, 7, 128)	217,088	co
conv5_block26_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block26_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block26_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co

conv5_block26_concat (Concatenate)	(None, 7, 7, 1728)	0	co co
conv5_block27_0_bn (BatchNormalization)	(None, 7, 7, 1728)	6,912	co
conv5_block27_0_relu (Activation)	(None, 7, 7, 1728)	0	co
conv5_block27_1_conv (Conv2D)	(None, 7, 7, 128)	221,184	co
conv5_block27_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block27_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block27_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block27_concat (Concatenate)	(None, 7, 7, 1760)	0	co co
conv5_block28_0_bn (BatchNormalization)	(None, 7, 7, 1760)	7,040	co
conv5_block28_0_relu (Activation)	(None, 7, 7, 1760)	0	co
conv5_block28_1_conv (Conv2D)	(None, 7, 7, 128)	225,280	co
conv5_block28_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block28_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block28_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block28_concat (Concatenate)	(None, 7, 7, 1792)	0	co co
conv5_block29_0_bn (BatchNormalization)	(None, 7, 7, 1792)	7,168	co
conv5_block29_0_relu (Activation)	(None, 7, 7, 1792)	0	co
conv5_block29_1_conv (Conv2D)	(None, 7, 7, 128)	229,376	co
conv5_block29_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block29_1_relu (Activation)	(None, 7, 7, 128)	0	co

conv5_block29_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block29_concat (Concatenate)	(None, 7, 7, 1824)	0	co co
conv5_block30_0_bn (BatchNormalization)	(None, 7, 7, 1824)	7,296	co
conv5_block30_0_relu (Activation)	(None, 7, 7, 1824)	0	co
conv5_block30_1_conv (Conv2D)	(None, 7, 7, 128)	233,472	co
conv5_block30_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block30_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block30_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block30_concat (Concatenate)	(None, 7, 7, 1856)	0	co co
conv5_block31_0_bn (BatchNormalization)	(None, 7, 7, 1856)	7,424	co
conv5_block31_0_relu (Activation)	(None, 7, 7, 1856)	0	co
conv5_block31_1_conv (Conv2D)	(None, 7, 7, 128)	237,568	co
conv5_block31_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co
conv5_block31_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block31_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block31_concat (Concatenate)	(None, 7, 7, 1888)	0	co co
conv5_block32_0_bn (BatchNormalization)	(None, 7, 7, 1888)	7,552	co
conv5_block32_0_relu (Activation)	(None, 7, 7, 1888)	0	co
conv5_block32_1_conv (Conv2D)	(None, 7, 7, 128)	241,664	co
conv5_block32_1_bn (BatchNormalization)	(None, 7, 7, 128)	512	co

conv5_block32_1_relu (Activation)	(None, 7, 7, 128)	0	co
conv5_block32_2_conv (Conv2D)	(None, 7, 7, 32)	36,864	co
conv5_block32_concat (Concatenate)	(None, 7, 7, 1920)	0	co co
bn (BatchNormalization)	(None, 7, 7, 1920)	7,680	co
relu (Activation)	(None, 7, 7, 1920)	0	bn
reshape_25 (Reshape)	(None, 49, 1920)	0	re
multi_head_attention_12 (MultiHeadAttention)	(None, 49, 1920)	118,012,800	re re
reshape_26 (Reshape)	(None, 7, 7, 1920)	0	mu
gaussian_noise_24 (GaussianNoise)	(None, 7, 7, 1920)	0	re
global_average_pooling2d... (GlobalAveragePooling2D)	(None, 1920)	0	ga
dense_24 (Dense)	(None, 512)	983,552	gl
gaussian_noise_25 (GaussianNoise)	(None, 512)	0	de
dropout_25 (Dropout)	(None, 512)	0	ga
dense_25 (Dense)	(None, 1)	513	dr

Total params: 137,318,849 (523.83 MB)

Trainable params: 118,996,865 (453.94 MB)

Non-trainable params: 18,321,984 (69.89 MB)

```
In [ ]: start_time = time.time()
history = cnn_model.fit(
    train_gen_new,
    validation_data=valid_gen_new,
    epochs=5,
    callbacks=[early_stopping],
    verbose=1
)
end_time = time.time()
```

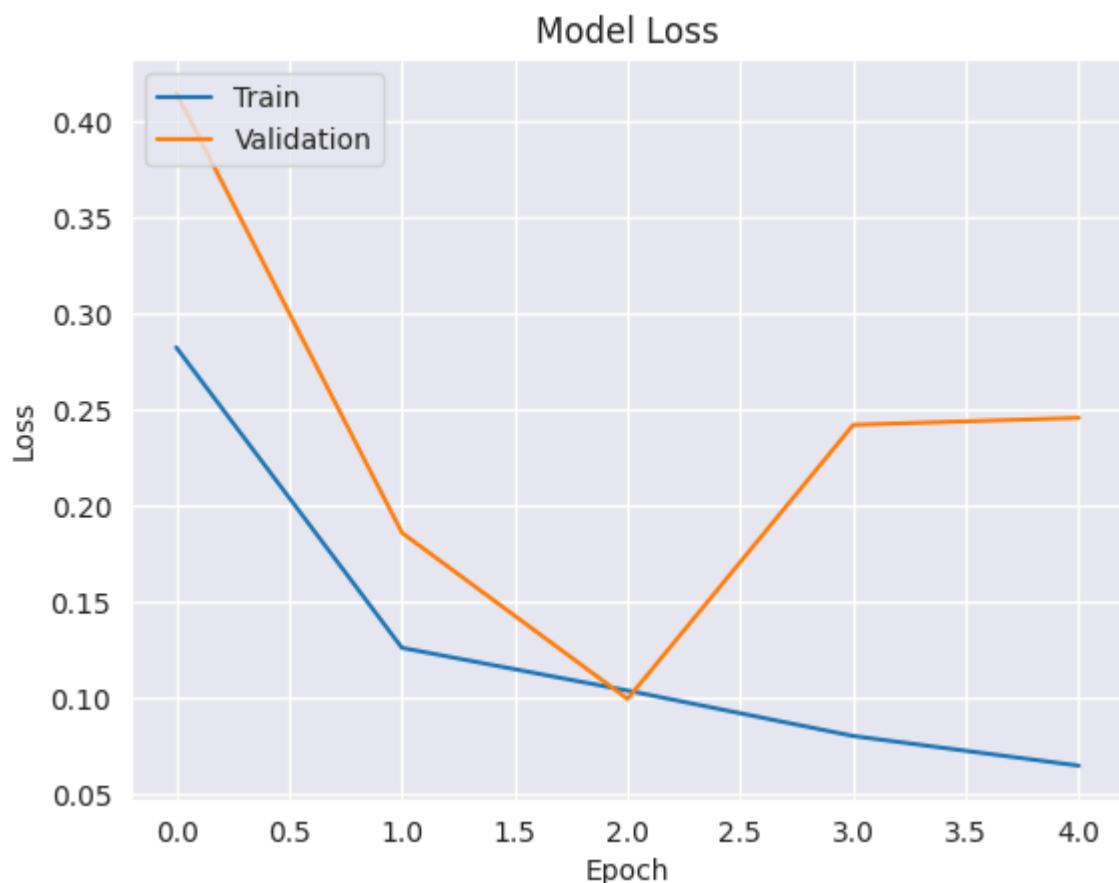
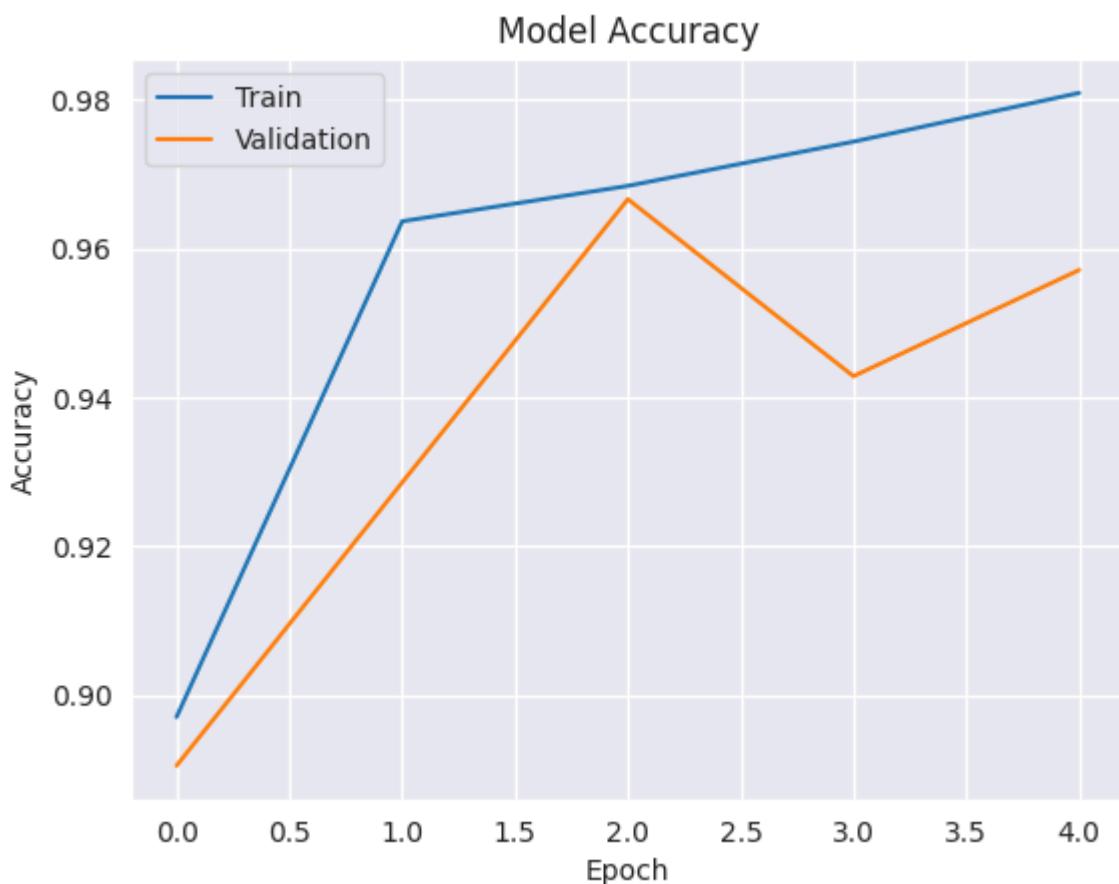
```
Epoch 1/5
105/105 664s 6s/step - accuracy: 0.8276 - loss: 0.3873 - val
_accuracy: 0.8905 - val_loss: 0.4146
Epoch 2/5
105/105 623s 6s/step - accuracy: 0.9635 - loss: 0.1310 - val
_accuracy: 0.9286 - val_loss: 0.1861
Epoch 3/5
105/105 626s 6s/step - accuracy: 0.9696 - loss: 0.1114 - val
_accuracy: 0.9667 - val_loss: 0.0998
Epoch 4/5
105/105 625s 6s/step - accuracy: 0.9751 - loss: 0.0778 - val
_accuracy: 0.9429 - val_loss: 0.2422
Epoch 5/5
105/105 625s 6s/step - accuracy: 0.9801 - loss: 0.0635 - val
_accuracy: 0.9571 - val_loss: 0.2458
```

```
In [ ]: inference_time = end_time - start_time
print(f"Inference time for DenseNet201=> {inference_time:.4f} seconds")
```

```
Inference time for DenseNet201=> 3164.1945 seconds
```

```
In [ ]: plt.plot(history.history['accuracy'])
plt.plot(history.history['val_accuracy'])
plt.title('Model Accuracy')
plt.ylabel('Accuracy')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()

plt.plot(history.history['loss'])
plt.plot(history.history['val_loss'])
plt.title('Model Loss')
plt.ylabel('Loss')
plt.xlabel('Epoch')
plt.legend(['Train', 'Validation'], loc='upper left')
plt.show()
```



```
In [ ]: report = classification_report(test_labels, predicted_labels, target_names=list(  
print(Fore.GREEN + "Report for DenseNet201 Model => ")  
print(report))
```

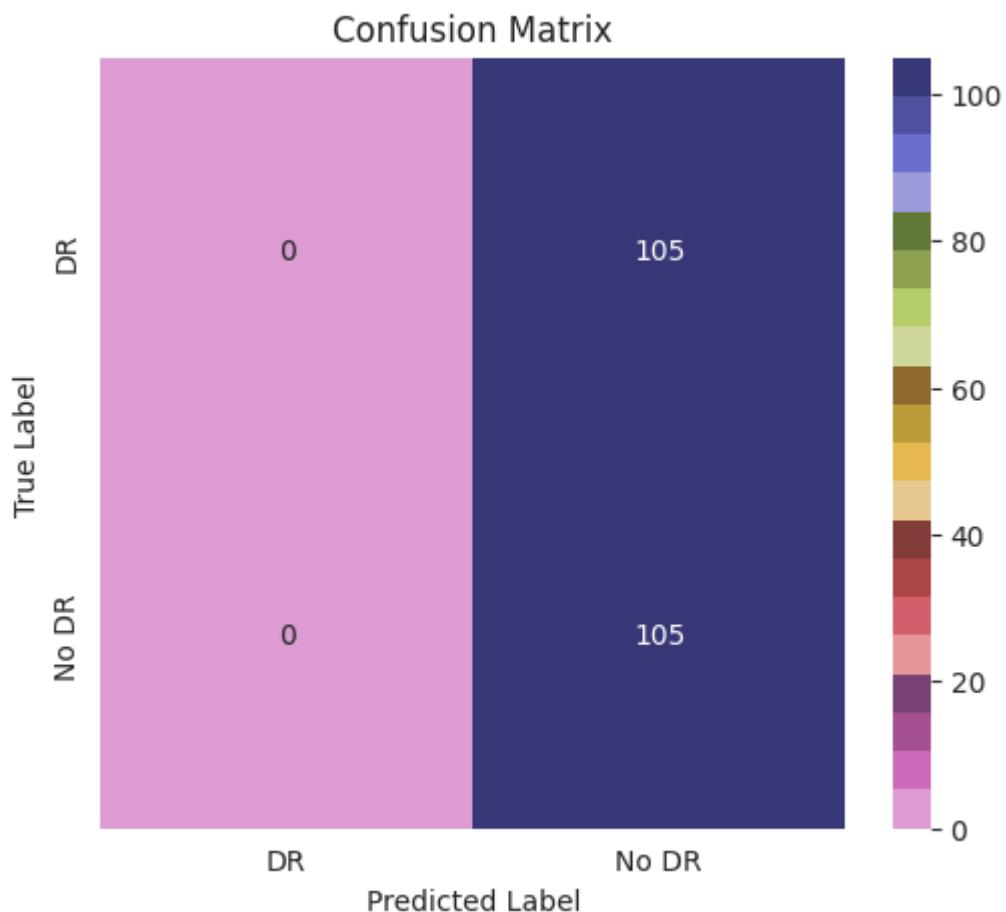
```
Report for DenseNet201 Model =>
      precision    recall  f1-score   support

          0       0.00     0.00     0.00     105
          1       0.50     1.00     0.67     105

   accuracy                           0.50     210
macro avg       0.25     0.50     0.33     210
weighted avg    0.25     0.50     0.33     210
```

```
In [ ]: conf_matrix = confusion_matrix(test_labels, predicted_labels)

plt.figure(figsize=(6, 5))
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='tab20b_r', xticklabels=['DR', 'No DR'],
            yticklabels=['DR', 'No DR'])
plt.xlabel('Predicted Label')
plt.ylabel('True Label')
plt.title('Confusion Matrix')
plt.show()
```



```
In [ ]:
```