PROJECT DEVELOPMENT PHASE

SPRINT 4

Team ID: PNT2022TMID50335

```
from google.colab import drive
drive.mount('/content/drive')
Drive already mounted at /content/drive; to attempt to forcibly remount, call
drive.mount("/content/drive", force remount=True).
!unzip /content/drive/MyDrive/archive.zip
Archive: /content/drive/MyDrive/archive.zip
  inflating:
Dataset/Dataset/test set/forest/0.48007200 1530881924 final forest.jpg
  inflating:
Dataset/Dataset/test set/forest/0.64133000 1519374442 forest deep.jpg
  inflating:
Dataset/Dataset/test set/forest/0.72918000 1559733279 forests1 gettyimages .j
  inflating: Dataset/Dataset/test set/forest/0.98884800 1554454572 spin.jpg
  inflating:
Dataset/Dataset/test set/forest/01 NeilBurnell Mystical photoverticall.jpg
  inflating:
Dataset/Dataset/test set/forest/091318 LH forest loss main FREE.jpg
  inflating: Dataset/Dataset/test set/forest/1009821.jpg
  inflating:
Dataset/Dataset/test set/forest/111188170 river in the mountain forest.jpg
  inflating: Dataset/Dataset/test set/forest/1170x500 Ireland web.jpg
  inflating: Dataset/Dataset/test set/forest/1200px Mountainarea.jpg
  inflating: Dataset/Dataset/test set/forest/146019.jpg
  inflating: Dataset/Dataset/test set/forest/1506697583544.jpg
  inflating: Dataset/Dataset/test set/forest/1551622076 img 5241.jpg
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Dataset/Dataset/test set/forest/1556508284pexels photo 1179229.jpeg
  inflating:
Dataset/Dataset/test set/forest/16475617 web1 ForestHealth VIB 190418 2.jpg
  inflating: Dataset/Dataset/test set/forest/18435324436 6a20e7fc70 k.jpg
  inflating: Dataset/Dataset/test set/forest/1 chimp.jpg
  inflating: Dataset/Dataset/test set/forest/200px View of Lake Moraine.jpg
  inflating: Dataset/Dataset/test set/forest/2017 10 12 09 01 56.jpg
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Dataset/Dataset/test set/forest/220px The forest near Blatets Vinitsa.JPG
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Dataset/Dataset/test set/forest/2E215059 55C7 417B 8DDD693AA6E416B4 source.jp
  inflating: Dataset/Dataset/test set/forest/31105585103 4c32392ac1 k.jpg
  inflating: Dataset/Dataset/test set/forest/381417.jpg
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Dataset/Dataset/test set/forest/4fe3f4e45d6bb93070989b8bbb77d30e.jpg
  inflating:
Dataset/Dataset/test set/forest/4k timelapse heavy rain on mountain forest tr
ee fog motion bad weather condition rfift1zh thumbnail .png
  inflating: Dataset/Dataset/test set/forest/5325.jpg
  inflating: Dataset/Dataset/test set/forest/5472.jpg
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Dataset/Dataset/test set/forest/559672101517195076987621071193712n.jpg
  inflating:
Dataset/Dataset/test set/forest/78closer exterior view of northern Rocky Moun
tain forest.jpg
  inflating:
Dataset/Dataset/test set/forest/79806645 landscape of tall grass field green
mountain forest.jpg
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Dataset/Dataset/test set/forest/7 18 MedicineBowHikingFishing KL 1319 4003.jp
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Trail Paul Smiths VIC 23 May 2012 61.jpg
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nature landscape in 4k aerial view b7oqfwutg thumbnail .png
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Dataset/Dataset/test set/forest/appalachian mtns forest usda srs.jpg
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Dataset/Dataset/test set/forest/austria mountain forest landscape wallpaper 1
920x1200.jpg
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Dataset/Dataset/test set/forest/canva waterfalls in the mountain forest MADR
13e0W4.jpg
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Dataset/Dataset/test set/forest/cold daylight environment 1423600 640x427.jpg
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Dataset/Dataset/test set/forest/fanas gregorschmucki 2016 28 1 2600x1733.jpg
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n clouds fog or mist picture id688948674.jpg
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fire/How to Protect Your Home From Forest Fire 1024x588.jpg
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22.jpa
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fire/photo 1555842027 660d9d8df55b.jpg
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fire/ring of fire bailey colorado rocky mountain forest wildfire picture id15
7384116.jpg
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fire/rsz 1fire pix accumulation 640 1 2.jpg
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fire/skynews ashdown forest fire 4653702.jpg
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fire/uttarakhand forest fire 750x500.jpg
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fire/wildfire header image 1024x1024.jpg
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```

```
rotation range=180,
                                  zoom range=0.2,
                                  horizontal flip=True)
test datagen = ImageDataGenerator(rescale=1./255)
train =
train datagen.flow from directory('/content/drive/MyDrive/archive.zip
(Unzipped Files)/Dataset/Dataset/train set',
                                         target size=(128,128),
                                         batch size=32,
                                         class mode='binary')
test =
train datagen.flow from directory('/content/drive/MyDrive/archive.zip
(Unzipped Files)/Dataset/Dataset/test set',
                                         target size=(128,128),
                                         batch size=32,
                                         class mode='binary')
Found 436 images belonging to 2 classes.
Found 121 images belonging to 2 classes.
from keras.models import Sequential
from keras.layers import Convolution2D, MaxPooling2D, Dense, Flatten
import warnings
warnings.filterwarnings('ignore')
model = Sequential()
model.add(Convolution2D(32,(3,3),input shape=(128,128,3),activation='relu'))
model.add(MaxPooling2D(pool size=(2,2)))
model.add(Flatten())
model.add(Dense(units=256,activation='relu'))
model.add(Dense(units=1,activation='sigmoid'))
model.summary()
Model: "sequential"
Layer (type)
               Output Shape Param #
______
                         (None, 126, 126, 32) 896
conv2d (Conv2D)
max pooling2d (MaxPooling2D (None, 63, 63, 32) 0
 flatten (Flatten)
                         (None, 127008)
 dense (Dense)
                         (None, 256)
                                        32514304
```

Total params: 32,515,457
Trainable params: 32,515,457
Non-trainable params: 0

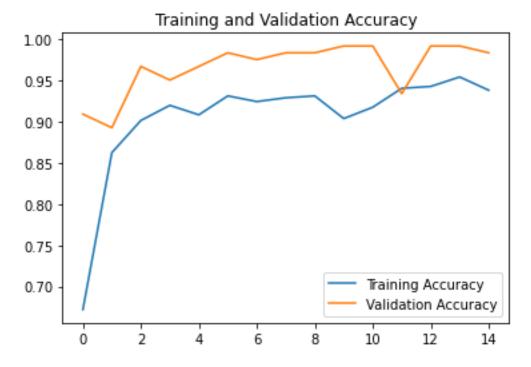
Epoch 8/15

model.compile(optimizer='adam',loss='binary_crossentropy',metrics=['accuracy','mse'])

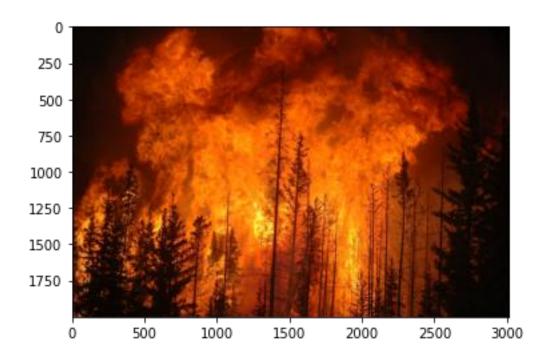
y=model.fit_generator(train, steps_per_epoch=14, epochs=15, validation_da
ta=test, validation_steps=4)

Epoch 1/15 accuracy: 0.6720 - mse: 0.2963 - val loss: 0.2203 - val accuracy: 0.9091 val mse: 0.0644 Epoch 2/15 accuracy: 0.8624 - mse: 0.1162 - val loss: 0.3265 - val accuracy: 0.8926 val mse: 0.0783 Epoch 3/15 accuracy: 0.9014 - mse: 0.0841 - val loss: 0.1184 - val accuracy: 0.9669 val mse: 0.0242 Epoch 4/15 accuracy: 0.9197 - mse: 0.0627 - val loss: 0.1434 - val accuracy: 0.9504 val mse: 0.0340 Epoch 5/15 accuracy: 0.9083 - mse: 0.0625 - val loss: 0.1117 - val accuracy: 0.9669 val mse: 0.0301 Epoch 6/15 accuracy: 0.9312 - mse: 0.0508 - val loss: 0.1079 - val accuracy: 0.9835 val mse: 0.0209 Epoch 7/15 accuracy: 0.9243 - mse: 0.0564 - val loss: 0.0969 - val accuracy: 0.9752 val mse: 0.0185

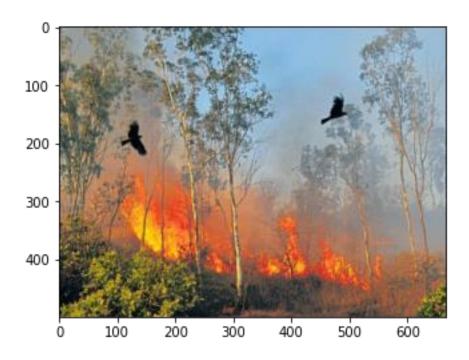
```
accuracy: 0.9289 - mse: 0.0520 - val loss: 0.0788 - val accuracy: 0.9835 -
val mse: 0.0169
Epoch 9/15
accuracy: 0.9312 - mse: 0.0504 - val loss: 0.0593 - val accuracy: 0.9835 -
val mse: 0.0167
Epoch 10/15
accuracy: 0.9037 - mse: 0.0657 - val loss: 0.0676 - val accuracy: 0.9917 -
val mse: 0.0170
Epoch 11/15
accuracy: 0.9174 - mse: 0.0540 - val loss: 0.0478 - val accuracy: 0.9917 -
val mse: 0.0111
Epoch 12/15
accuracy: 0.9404 - mse: 0.0465 - val loss: 0.1063 - val accuracy: 0.9339 -
val mse: 0.0362
Epoch 13/15
accuracy: 0.9427 - mse: 0.0457 - val loss: 0.0548 - val accuracy: 0.9917 -
val mse: 0.0139
Epoch 14/15
accuracy: 0.9541 - mse: 0.0425 - val loss: 0.0509 - val accuracy: 0.9917 -
val mse: 0.0127
Epoch 15/15
accuracy: 0.9381 - mse: 0.0474 - val loss: 0.0587 - val accuracy: 0.9835 -
val mse: 0.0156
model.save('ffd model.h5')
import matplotlib.pyplot as plt
epochs = range (0, 15)
plt.plot(epochs, y.history['accuracy'], label='Training Accuracy')
plt.plot(epochs, y.history['val accuracy'], label='Validation
Accuracy')
plt.legend()
plt.title('Training and Validation Accuracy')
plt.show()
```



```
from keras.models import load model
import cv2
import numpy as np
from PIL import Image
from keras.utils import img to array
model = load model('/content/ffd_model.h5')
def prediction(img path):
   i = cv2.imread(img path)
   i = cv2.cvtColor(i, cv2.COLOR BGR2RGB)
   img = Image.open(img path)
   img = img.resize((128, 128))
   x = img to array(img)
   x = np.expand dims(x,axis=0)
   pred = model.predict(x)
   plt.imshow(i)
   print("%s"%("FOREST FIRE DETECTED! SMS SENT!" if pred==[[1.]] else "NO
FOREST FIRE DETECTED"))
                                                                     In []:
prediction(r'/content/drive/MyDrive/demo image 1.jpg')
FOREST FIRE DETECTED! SMS SENT!
```







prediction(r'/content/Dataset/Dataset/test_set/with
fire/How_to_Protect_Your_Home_From_Forest_Fire_1024x588.jpg')

1/1 [======] - 0s 37ms/step FOREST FIRE DETECTED! SMS SENT!



 $\label{lem:prediction} $$\operatorname{prediction(r'/content/Dataset/Dataset/test_set/forest/0.72918000_1559733279_f orests1_gettyimages_.jpg')$$

1/1 [======] - 0s 39ms/step NO FOREST FIRE DETECTED

