**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

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inflating: forest1.h5

**from** keras.preprocessing.image **import** ImageDataGenerator

train\_datagen **=** ImageDataGenerator(rescale**=**1.**/**255,

shear\_range**=**0.2,

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"

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Layer (type) Output Shape Param #

=================================================================

conv2d (Conv2D) (None, 126, 126, 32) 896

max\_pooling2d (MaxPooling2D (None, 63, 63, 32) 0

)

flatten (Flatten) (None, 127008) 0

dense (Dense) (None, 256) 32514304

dense\_1 (Dense) (None, 1) 257

=================================================================

Total params: 32,515,457

Trainable params: 32,515,457

Non-trainable params: 0

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model**.**compile(optimizer**=**'adam',loss**=**'binary\_crossentropy',metrics**=**['accuracy','mse'])

y**=**model**.**fit\_generator(train,steps\_per\_epoch**=**14,epochs**=**15,validation\_data**=**test,validation\_steps**=**4)

Epoch 1/15

14/14 [==============================] - 131s 9s/step - loss: 4.9371 - accuracy: 0.6720 - mse: 0.2963 - val\_loss: 0.2203 - val\_accuracy: 0.9091 - val\_mse: 0.0644

Epoch 2/15

14/14 [==============================] - 28s 2s/step - loss: 0.5698 - accuracy: 0.8624 - mse: 0.1162 - val\_loss: 0.3265 - val\_accuracy: 0.8926 - val\_mse: 0.0783

Epoch 3/15

14/14 [==============================] - 28s 2s/step - loss: 0.3159 - accuracy: 0.9014 - mse: 0.0841 - val\_loss: 0.1184 - val\_accuracy: 0.9669 - val\_mse: 0.0242

Epoch 4/15

14/14 [==============================] - 30s 2s/step - loss: 0.2330 - accuracy: 0.9197 - mse: 0.0627 - val\_loss: 0.1434 - val\_accuracy: 0.9504 - val\_mse: 0.0340

Epoch 5/15

14/14 [==============================] - 28s 2s/step - loss: 0.2215 - accuracy: 0.9083 - mse: 0.0625 - val\_loss: 0.1117 - val\_accuracy: 0.9669 - val\_mse: 0.0301

Epoch 6/15

14/14 [==============================] - 28s 2s/step - loss: 0.1681 - accuracy: 0.9312 - mse: 0.0508 - val\_loss: 0.1079 - val\_accuracy: 0.9835 - val\_mse: 0.0209

Epoch 7/15

14/14 [==============================] - 28s 2s/step - loss: 0.1860 - accuracy: 0.9243 - mse: 0.0564 - val\_loss: 0.0969 - val\_accuracy: 0.9752 - val\_mse: 0.0185

Epoch 8/15

14/14 [==============================] - 28s 2s/step - loss: 0.1757 - accuracy: 0.9289 - mse: 0.0520 - val\_loss: 0.0788 - val\_accuracy: 0.9835 - val\_mse: 0.0169

Epoch 9/15

14/14 [==============================] - 27s 2s/step - loss: 0.1696 - accuracy: 0.9312 - mse: 0.0504 - val\_loss: 0.0593 - val\_accuracy: 0.9835 - val\_mse: 0.0167

Epoch 10/15

14/14 [==============================] - 28s 2s/step - loss: 0.2129 - accuracy: 0.9037 - mse: 0.0657 - val\_loss: 0.0676 - val\_accuracy: 0.9917 - val\_mse: 0.0170

Epoch 11/15

14/14 [==============================] - 28s 2s/step - loss: 0.1662 - accuracy: 0.9174 - mse: 0.0540 - val\_loss: 0.0478 - val\_accuracy: 0.9917 - val\_mse: 0.0111

Epoch 12/15

14/14 [==============================] - 28s 2s/step - loss: 0.1461 - accuracy: 0.9404 - mse: 0.0465 - val\_loss: 0.1063 - val\_accuracy: 0.9339 - val\_mse: 0.0362

Epoch 13/15

14/14 [==============================] - 28s 2s/step - loss: 0.1505 - accuracy: 0.9427 - mse: 0.0457 - val\_loss: 0.0548 - val\_accuracy: 0.9917 - val\_mse: 0.0139

Epoch 14/15

14/14 [==============================] - 27s 2s/step - loss: 0.1364 - accuracy: 0.9541 - mse: 0.0425 - val\_loss: 0.0509 - val\_accuracy: 0.9917 - val\_mse: 0.0127

Epoch 15/15

14/14 [==============================] - 29s 2s/step - loss: 0.1539 - 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)

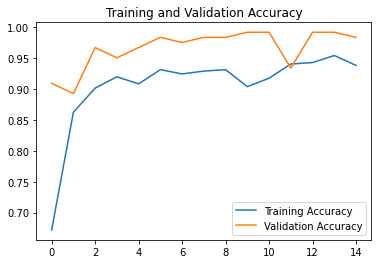
plt**.**plot(epochs, y**.**history['accuracy'], label**=**'Training Accuracy')

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')

1/1 [==============================] - 0s 89ms/step

FOREST FIRE DETECTED! SMS SENT!



prediction(r'/content/drive/MyDrive/demo\_image 2.jpg')

1/1 [==============================] - 0s 38ms/step

NO FOREST FIRE DETECTED



prediction(r'/content/Dataset/Dataset/test\_set/with fire/599857.jpg')

1/1 [==============================] - 0s 40ms/step

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!



prediction(r'/content/Dataset/Dataset/test\_set/forest/0.72918000\_1559733279\_forests1\_gettyimages\_.jpg')

1/1 [==============================] - 0s 39ms/step

NO FOREST FIRE DETECTED

