

ASSIGNMENT-3
EMERGING METHODS FOR EARLY DETECTION OF
FOREST FIRE

Date	03 October 2022
Team id	PNT2022TMID07050
Project Name	Emerging Methods for Early Detection of Forest Fires

Question-1 Load dataset:

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inflating: flowers/rose/873660804_37f5c6a46e_n.jpg

inflating: flowers/rose/8742493617_c2a9bf854f_m.jpg
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inflating: flowers/rose/8853083579_dd1dfa3188.jpg
inflating: flowers/rose/8926641787_d2515dfe8f_m.jpg
inflating: flowers/rose/8949720453_66e8304c30.jpg
inflating: flowers/rose/8960904651_9a0b727258.jpg
inflating: flowers/rose/898102603_2d5152f09a.jpg
inflating: flowers/rose/8983268106_dc913d17d8_m.jpg
inflating: flowers/rose/8987479080_32ab912d10_n.jpg
inflating: flowers/rose/909277823_e6fb8cb5c8_n.jpg
inflating: flowers/rose/9159362388_c6f4cf3812_n.jpg
inflating: flowers/rose/9160289562_ab2718d19b.jpg
inflating: flowers/rose/9164900485_605aa12da8.jpg
inflating: flowers/rose/9164924345_6b63637acf.jpg
inflating: flowers/rose/9167147034_0a66ee3616_n.jpg
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inflating: flowers/rose/9216323421_f737c1d50e.jpg
inflating: flowers/rose/9216324117_5fa1e2bc25_n.jpg
inflating: flowers/rose/921984328_a60076f070_m.jpg
inflating: flowers/rose/9298314004_c1a8146521.jpg
inflating: flowers/rose/9300754115_dd79670066_n.jpg
inflating: flowers/rose/9309388105_12c0b8dd54_m.jpg
inflating: flowers/rose/9320934277_4fb95aef5d_n.jpg
inflating: flowers/rose/9337528427_3d09b7012b.jpg
inflating: flowers/rose/9338237628_4d2547608c.jpg
inflating: flowers/rose/9353111163_7a89b2df35_n.jpg
inflating: flowers/rose/9355706808_a9a723a8e8_n.jpg
inflating: flowers/rose/9369421752_db1ab2a6a4_m.jpg
inflating: flowers/rose/9404876600_04f6d37685.jpg
inflating: flowers/rose/9423755543_edb35141a3_n.jpg
inflating: flowers/rose/9433167170_fa056d3175.jpg
inflating: flowers/rose/9458445402_79e4dfa89c.jpg
inflating: flowers/rose/9609569441_eeb8566e94.jpg
inflating: flowers/rose/9614492283_66020fb4eb_n.jpg
inflating: flowers/rose/9633056561_6f1b7e8faf_m.jpg
inflating: flowers/rose/9702378513_229a96b754_m.jpg
inflating: flowers/rose/99383371_37a5ac12a3_n.jpg

Question-2 Image Augmentation:

```
import tensorflow as tensorflow
from tensorflow.keras.preprocessing.image import ImageDataGenerator
train_data_aug = ImageDataGenerator(rescale=1./255,
                                     zoom_range=0.2,
                                     horizontal_flip=True)
test_data_aug = ImageDataGenerator(rescale=1./255)

xtrain = train_data_aug.flow_from_directory('/content/flowers',
                                           target_size=(64,64),
                                           class_mode='categorical',
                                           batch_size=100)

Found 4317 images belonging to 5 classes.
xtest = test_data_aug.flow_from_directory('/content/flowers',
                                          target_size=(64,64),
                                          class_mode='categorical',
                                          batch_size=100)
```

Question-3 Create model:

```
from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Convolution2D,MaxPooling2D,Flatten,Dense
Add Layers (Convolution, Max-Pooling, Flatten, Dense-(Hidden Layers), Output)

model = Sequential()
model.add(Convolution2D(32,(3,3),activation='relu',input_shape=(64,64,3))) #
Convolution layer
model.add(MaxPooling2D(pool_size=(2,2))) # Max pooling layer
model.add(Flatten()) # Flatten layer
# Fully connected layers (ANN)
```

```
model.add(Dense(300,activation='relu')) # Hidden layer 1
model.add(Dense(150,activation='relu')) # Hidden layer 2
model.add(Dense(5,activation='softmax')) # Output layer
```

Question-4 Compile and fit the model:

```
model.compile(optimizer='adam',loss='categorical_crossentropy',metrics=['accuracy'])
```

Fit the Model

```
model.fit_generator(xtrain,
                    steps_per_epoch=len(xtrain),
                    epochs=10,
                    validation_data=xtest,
                    validation_steps=len(xtest))
```

```
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:5: UserWarning:
`Model.fit_generator` is deprecated and will be removed in a future version. Please
use `Model.fit`, which supports generators.
```

"""

Epoch 1/10

```
44/44 [=====] - 28s 616ms/step - loss: 1.5816 -
accuracy: 0.4054 - val_loss: 1.2184 - val_accuracy: 0.5003
```

Epoch 2/10

```
44/44 [=====] - 27s 606ms/step - loss: 1.0826 -
accuracy: 0.5701 - val_loss: 1.0610 - val_accuracy: 0.5763
```

Epoch 3/10

```
44/44 [=====] - 26s 603ms/step - loss: 1.0018 -
accuracy: 0.6104 - val_loss: 0.9595 - val_accuracy: 0.6382
```

Epoch 4/10

```
44/44 [=====] - 26s 603ms/step - loss: 0.9299 -
accuracy: 0.6405 - val_loss: 0.9755 - val_accuracy: 0.6356
```

Epoch 5/10

44/44 [=====] - 27s 604ms/step - loss: 0.8992 - accuracy: 0.6641 - val_loss: 0.8379 - val_accuracy: 0.6745

Epoch 6/10

44/44 [=====] - 26s 602ms/step - loss: 0.8282 - accuracy: 0.6845 - val_loss: 0.8750 - val_accuracy: 0.6664

Epoch 7/10

44/44 [=====] - 27s 604ms/step - loss: 0.7990 - accuracy: 0.6933 - val_loss: 0.8074 - val_accuracy: 0.6996

Epoch 8/10

44/44 [=====] - 27s 604ms/step - loss: 0.7511 - accuracy: 0.7151 - val_loss: 0.7510 - val_accuracy: 0.7153

Epoch 9/10

44/44 [=====] - 26s 600ms/step - loss: 0.7159 - accuracy: 0.7315 - val_loss: 0.7528 - val_accuracy: 0.7155

Epoch 10/10

44/44 [=====] - 26s 602ms/step - loss: 0.6997 - accuracy: 0.7322 - val_loss: 0.6177 - val_accuracy: 0.7709

<keras.callbacks.History at 0x7fef66a50790>

Question-5 Save the model:

```
model.save('/content/flowers')
```

Test the Model

```
import numpy as np
```

```
from tensorflow.keras.preprocessing import image
```

```
img =
```

```
image.load_img('/content/flowers/rose/10503217854_e66a804309.jpg',target_size  
=(64,64))
```

```
img
```



```
x = image.img_to_array(img)
```

```
x
```

```
array([[[ 0.,  2.,  0.],  
        [ 0.,  2.,  0.],  
        [ 0.,  2.,  0.],  
        ...,  
        [ 92., 14.,  0.],  
        [ 61., 13.,  9.],  
        [ 17.,  7.,  5.]],
```

```
       [[ 0.,  2.,  0.],  
        [ 0.,  2.,  0.],  
        [ 0.,  2.,  0.],  
        ...,  
        [150.,  3.,  0.],  
        [ 85., 10.,  7.],  
        [119.,  4.,  1.]],
```

```
       [[ 0.,  2.,  0.],  
        [ 0.,  2.,  0.],  
        [ 0.,  2.,  0.],  
        ...,  
        [ 88.,  9.,  0.],  
        [207.,  7., 10.]],
```



```

[152., 0., 0.],

...,

[[ 0., 4., 0.],
 [ 1., 3., 0.],
 [ 0., 2., 0.],
 ...,
 [ 2., 2., 4.],
 [ 0., 2., 5.],
 [51., 10., 6.]],

[[ 0., 2., 0.],
 [ 1., 3., 0.],
 [ 1., 3., 0.],
 ...,
 [ 0., 3., 1.],
 [ 0., 3., 4.],
 [ 0., 5., 3.]],

[[ 1., 3., 0.],
 [ 0., 2., 0.],
 [ 1., 1., 0.],
 ...,
 [29., 5., 1.],
 [41., 13., 0.],
 [ 5., 4., 0.]], dtype=float32)
x = np.expand_dims(x,axis=0)
x
array([[[[ 0., 2., 0.],
          [ 0., 2., 0.],

```

[0., 2., 0.],
...,
[92., 14., 0.],
[61., 13., 9.],
[17., 7., 5.]],

[[0., 2., 0.],
[0., 2., 0.],
[0., 2., 0.],
...,
[150., 3., 0.],
[85., 10., 7.],
[119., 4., 1.]],

[[0., 2., 0.],
[0., 2., 0.],
[0., 2., 0.],
...,
[88., 9., 0.],
[207., 7., 10.],
[152., 0., 0.]],

...,

[[0., 4., 0.],
[1., 3., 0.],
[0., 2., 0.],
...,
[2., 2., 4.],
[0., 2., 5.],
[51., 10., 6.]],

```

[[ 0.,  2.,  0.],
 [ 1.,  3.,  0.],
 [ 1.,  3.,  0.],
 ...,
 [ 0.,  3.,  1.],
 [ 0.,  3.,  4.],
 [ 0.,  5.,  3.]],

[[ 1.,  3.,  0.],
 [ 0.,  2.,  0.],
 [ 1.,  1.,  0.],
 ...,
 [29.,  5.,  1.],
 [41., 13.,  0.],
 [ 5.,  4.,  0.] ]], dtype=float32)
model.predict(x)
array([[0., 0., 1., 0., 0.]], dtype=float32)
xtrain.class_indices
{'daisy': 0, 'dandelion': 1, 'rose': 2, 'sunflower': 3, 'tulip': 4}
op = ['daisy','dandelion','rose','sunflower','tulip']
pred = np.argmax(model.predict(x))
op[pred]
'rose'
img =
image.load_img('/content/flowers/dandelion/10043234166_e6dd915111_n.jpg',target_size=(64,64))
x = image.img_to_array(img)
x = np.expand_dims(x,axis=0)
pred = np.argmax(model.predict(x))
op[pred]

```

'dandelion'