

```
!unzip '/content/Flowers_Dataset.zip'
```

```
unzip: cannot find or open /content/Flowers_Dataset.zip, /content/Flowers_Dataset.zi
```

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

```
train_datagen = ImageDataGenerator(rescale=1./255,
                                   zoom_range=0.2,
                                   horizontal_flip=True)
```

```
test_datagen = ImageDataGenerator(rescale=1./255)
```

```
xtrain = train_datagen.flow_from_directory('/content/dataset/Training',
                                           target_size=(64,64),
                                           class_mode='categorical',
                                           batch_size=100)
```



```
-----
FileNotFoundError                                Traceback (most recent call last)
<ipython-input-5-eee262f075dc> in <module>
      2                                     target_size=(64,64),
      3                                     class_mode='categorical',
----> 4                                     batch_size=100)
```

1 frames

```
/usr/local/lib/python3.7/dist-packages/keras/preprocessing/image.py in
__init__(self, directory, image_data_generator, target_size, color_mode, classes,
class_mode, batch_size, shuffle, seed, data_format, save_to_dir, save_prefix,
save_format, follow_links, subset, interpolation, keep_aspect_ratio, dtype)
    505     if not classes:
    506         classes = []
--> 507     for subdir in sorted(os.listdir(directory)):
    508         if os.path.isdir(os.path.join(directory, subdir)):
    509             classes.append(subdir)
```

```
FileNotFoundError: [Errno 2] No such file or directory: '/content/dataset/Training'
```

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```
xtest = test_datagen.flow_from_directory('/content/dataset/Testing',
                                          target_size=(64,64),
                                          class_mode='categorical',
                                          batch_size=10)
```

```

-----
--
FileNotFoundError                                Traceback (most recent call
last)
<ipython-input-6-99c169bfa253> in <module>
      2                                     target_size=(64,64),
      3
class_mode='categorical',
----> 4                                     batch_size=10)

-----
1 frames
/usr/local/lib/python3.7/dist-packages/keras/preprocessing/image.py in
__init__(self, directory, image_data_generator, target_size, color_mode,
classes, class_mode, batch_size, shuffle, seed, data_format, save_to_disk)

```

```

from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Convolution2D, MaxPooling2D, Flatten, Dense

--> 507     for subdir in sorted(os.listdir(directory)):

model = Sequential() # Initializing the model
model.add(Convolution2D(32,(3,3),activation='relu',input_shape=(64,64,3))) # Covolution 1a
model.add(MaxPooling2D(pool_size=(2,2))) # Max pooling layer
model.add(Flatten()) # Flatten layer
model.add(Dense(300,activation='relu')) # Hidden layer 1
model.add(Dense(150,activation='relu')) # Hidden layer 2
model.add(Dense(4,activation='softmax'))

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

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

```

```

-----
--
NameError                                Traceback (most recent call
last)
<ipython-input-10-d142fa47445a> in <module>
----> 1 model.fit_generator(xtrain,
      2                     steps_per_epoch=len(xtrain),
      3                     epochs=10,
      4                     validation_data=xtest,
      5                     validation_steps=len(xtest))

NameError: name 'xtrain' is not defined

```

```
model.save('flowers.h5')
```

```
from tensorflow.keras.callbacks import EarlyStopping, ReduceLROnPlateau
```

```
model.fit_generator(xtrain,
                    steps_per_epoch=len(xtrain),
                    epochs=100,
                    callbacks=callbacks,
                    validation_data=xtest,
                    validation_steps=len(xtest),)
```

--

NameError Traceback (most recent call last)

<ipython-input-11-59fa309322ba> in <module>

```
----> 1 model.fit_generator(xtrain,
      2                      steps_per_epoch=len(xtrain),
      3                      epochs=100,
      4                      callbacks=callbacks,
      5                      validation_data=xtest,
```

NameError: name 'xtrain' is not defined

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