

Image Preprocessing

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#Importing The ImageDataGenerator Library:

```
# import keras Library
import keras
# import ImageDataGenerator class from keras
from keras.preprocessing.image import ImageDataGenerator
```

#Define The Parameters /Arguments for ImageDataGenerator Class :

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

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

#Applying ImageDataGenerator Functionality To Trainset and Testset :

```
x_train = train_datagen.flow_from_directory(r"/content/drive/MyDrive/Data
Collection/training", target_size=(64, 64), batch_size=32,
color_mode="rgb", class_mode="sparse")
```

```
x_test = test_datagen.flow_from_directory(r"/content/drive/MyDrive/Data
Collection/testing", target_size=(64, 64), batch_size=32,
color_mode="rgb", class_mode="sparse")
```