

```
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).

```
ls
```

```
readme.txt test_set/ train_set/
```

```
cd /content/drive/MyDrive/dataset
```

```
/content/drive/MyDrive/dataset
```

```
ls
```

```
readme.txt test_set/ train_set/
```

```
pwd
```

```
'/content/drive/MyDrive/dataset'
```

```
# importing imagedatagenerator library
```

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

Image Data Arumentation

```
#Configuring image Data Generator Class
```

```
#Setting Parameter for Image Augmentation for training data
```

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

```
#Image Data Augmentation for testing data
```

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

Apply Image Data Generator Functionality To Train And Test Database

```
#Performing data augmentation to train data
```

```
x_train = train_datagen.flow_from_directory('/content/drive/MyDrive/dataset/train_set', target_size =  
(64,64), batch_size = 5, color_mode = 'rgb', class_mode = 'categorical')
```

Found 744 images belonging to 4 classes.

#performing data augmentation to test data

```
x_test = test_datagen.flow_from_directory('/content/drive/MyDrive/dataset/test_set', target_size =  
(64,64), batch_size = 5, color_mode = 'rgb', class_mode = 'categorical')
```

Found 198 images belonging to 4 classes.