

```
In [1]: import keras
        from keras.preprocessing.image import ImageDataGenerator
```

```
In [8]: #Define the parameters/arguments for ImageDataGenerator class
        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)
```

```
In [11]: #Applying ImageDataGenerator functionality to trainset
        x_train=train_datagen.flow_from_directory('/content/Dataset/Dataset/train_set', target_size=(128,128), batch_size=32, class_mode='binary')

        Found 436 images belonging to 2 classes.
```

```
In [12]: #Applying ImageDataGenerator functionality to testset
        x_test=test_datagen.flow_from_directory('/content/Dataset/Dataset/test_set', target_size=(128,128), batch_size=32, class_mode='binary')

        Found 121 images belonging to 2 classes.
```

```
In [17]: #import model building libraries

        #To define Linear initialisation import Sequential
        from keras.models import Sequential
        #To add Layers import Dense
        from keras.layers import Dense
        #To create Convolution kernel import Convolution2D
        from keras.layers import Convolution2D
        #import Maxpooling Layer
        from keras.layers import MaxPooling2D
        #import flatten Layer
        from keras.layers import Flatten
        import warnings
        warnings.filterwarnings('ignore')
```

```
In [19]: #initializing the model
        model=Sequential()
```

```
In [ ]:
```