

MODEL BUILDING

Found 3662 images belonging to 5 classes.

```
In [7]: xception=Xception(input_shape = imageSize + [3], weights = 'imagenet', include_top=False)
```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/xception/xception_weights_tf_dim_ordering_tf_kernels_notop.h5
83683744/83683744 [=====] - 82s 1us/step

```
In [8]: for layer in xception.layers:  
        layer.trainable = False
```

```
In [9]: x = Flatten()(xception.output)
```

```
In [10]: prediction = Dense(5, activation = 'softmax')(x)
```

```
In [11]: model = Model(inputs=xception.input, outputs=prediction)
```