# Adding Dense Layers

Dense layer is deeply connected neural network layer. It is most common andfrequently used layer.

```python
# Adding a fully connected layer, i.e. Hidden Layer
model.add(Dense(units=512 , activation='relu'))


# softmax for categorical analysis, Output Layer
model.add(Dense(units=6, activation='softmax'))
```

Understanding the model is very important phase to properly use it for trainingand prediction purposes. Keras provides a simple method, summary to get the full information about the model and its layers.

```
classifier.summary()#summary of our model

Model: "sequential_4"

Layer (type)                    Output Shape              Param #
=================================================================
conv2d_6 (Conv2D)               (None, 62, 62, 32)        320

max_pooling2d_6 (MaxPooling2    (None, 31, 31, 32)        0

conv2d_7 (Conv2D)               (None, 29, 29, 32)        9248

max_pooling2d_7 (MaxPooling2    (None, 14, 14, 32)        0

flatten_3 (Flatten)             (None, 6272)              0

dense_6 (Dense)                 (None, 128)               802944

dense_7 (Dense)                 (None, 6)                 774
=================================================================
Total params: 813,286
Trainable params: 813,286
Non-trainable params: 0
```