## **Adding Dense Layers**

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A dense layer is a deeply connected neural network layer. It is the mostcommon and frequently used layer.

```
# Adding a fully connected layer
classifier.add(Dense(units=128, activation='relu'))
classifier.add(Dense(units=5, activation='softmax')) # softmax for more than 2
```

The number of neurons in the Dense layer is the same as the number of classes in the training set. The neurons in the last Dense layer, use SoftMaxactivation to convert their outputs into respective probabilities.

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

classifier.summary()#summary of our model				
Model: "sequential"				
Layer (type)		Shape	Param #	
conv2d (Conv2D)		62, 62, 32)	896	
max_pooling2d (MaxPooling2D)	(None,	31, 31, 32)	9	
conv2d_1 (Conv2D)	(None,	29, 29, 32)	9248	
max_pooling2d_1 (MaxPooling2	(None,	14, 14, 32)	0	
flatten (Flatten)	(None,	6272)	0	
dense (Dense)	(None,	128)	802944	
dense_1 (Dense)	(None,	5)	645	
Total params: 813,733 Trainable params: 813,733 Non-trainable params: 0				