Model Building Adding Dense Layers

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Adding Dense Layers

A dense layer is a deeply connected neural network layer. It is the most common 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 softmax activation 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 of a summary to get the full information about the model and its layers.



classifier.summary()#summary of our model

Model: "sequential"

(None, 62, 62, 32) (None, 31, 31, 32)	896 0
	0
(None, 29, 29, 32)	9248
(None, 14, 14, 32)	0
(None, 6272)	Ø
(None, 128)	802944
	645
-	(None, 128) (None, 5)

Total params: 813,733 Trainable params: 813,733 Non-trainable params: 0