Adding Dense Layers

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Project	AI-Powered Nutrition Analyzer for Fitness Enthusiasts

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, a summary to get the full information about the model and its layers.

classifier.summary()#summary of our model			
Model: "sequential"			
Layer (type)	Output Shape	Param #	
conv2d (Conv2D)	(None, 62, 62, 32)		
max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)	0	
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			