Adding Dense Layers

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1 -	AI-powered Nutrition Analyzer for FitnessEnthusiasts	

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

classifier.summary()#summary of our model				
Model: "sequential"				
Layer (type)	Output		Param #	
conv2d (Conv2D)		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				

training and prediction purposes. Keras provides a simple method, a summary to get the full information about the model and its layers.