Adding DenseLayers

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ProjectName	AI-Powered Nutrition Analyzer for	
	Fitness Enthusiasts	

Adenselayerisadeeplyconnectedneuralnetworklayer. 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, uses of tmax activation to convert their outputs into respective probabilities.

Understandingthemodelisaveryimportantphasetoproperlyusingitfortraining and prediction purposes. Keras provides a simple method, asummarytogetthefullinformationaboutthemodelanditslayers.

classifier.summary()#summary of our model						
Model: "sequential"						
Layer (type)	Output	Shape	Param #			
conv2d (Conv2D)	(None,	62, 62, 32)	896			
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						