Team ID	PNT2022TMID16460
Project Name	Project – AI-Powered Nutrition Analyzer for
	Fitness Enthusiasts

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

```
      Classifier.summary()

      Model: "sequential_1"

      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 (MaxPooling (None, 14, 14, 32)
      0

      2D)
      flatten (Flatten)
      (None, 6272)
      0

      Total params: 10,144
      Trainable params: 10,144
      Non-trainable params: 0
```