

MODEL BUILDING

Team ID	PNT2022TMID51044
Project Name	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.

```
✓ 0s ▶ model.add(Dense(300, activation = "relu"))  
model.add(Dense(150, activation = "relu"))
```

```
✓ 0s [22] model.add(Dense(5, activation = "softmax"))
```

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.

✓
0s



model.summary()



Model: "sequential_1"

Layer (type)	Output Shape	Param #
=====		
conv2d (Conv2D)	(None, 62, 62, 32)	896
max_pooling2d (MaxPooling2D)	(None, 31, 31, 32)	0
flatten (Flatten)	(None, 30752)	0
dense (Dense)	(None, 300)	9225900
dense_1 (Dense)	(None, 150)	45150
dense_2 (Dense)	(None, 5)	755
=====		
Total params: 9,272,701		
Trainable params: 9,272,701		
Non-trainable params: 0		
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