Team ID	LTVIP2025TMIDS67751
Project Name	Project – AI-Powered Nutrition Analyzer for Fitness Enthusiasts

Adding CNN Layers

- For information regarding CNN Layers refer to the link

Link: https://victorzhou.com/blog/intro-to-cnns-part-1/

- As the input image contains three channels, we are specifying the input shape as (64,64,3).

- We are adding a two convolution layer with activation function as “relu” and

with a small filter size (3,3) and the number of filters (32) followed by a max-pooling layer.

- Max pool layer is used to down sample the input.(Max pooling is a pooling operation that selects the maximum element from the region of the feature map covered by the filter)
- Flatten layer flattens the input. Does not affect the batch size.

Creating the model

```
[ ]  classifier=Sequential()
     classifier.add(Conv2D(32,(3,3),input_shape=(64,64,3),activation='relu'))
     classifier.add(MaxPooling2D(pool_size=(2,2)))
     classifier.add(Conv2D(32,(3,3),activation='relu'))
     classifier.add(MaxPooling2D(pool_size=(2,2)))
     classifier.add(Flatten())
```