

## MODEL BUILDING

<b>Team ID</b>	PNT2022TMID51044
<b>Project Name</b>	AI-powered Nutrition Analyzer for Fitness Enthusiasts

### Adding CNN Layers

- Add 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.

```
✓ [17] from tensorflow.keras.layers import Convolution2D,MaxPooling2D,Flatten,Dense  
Ds      model=Sequential()  
  
✓ [18] model.add(Convolution2D(32, (3,3), activation = 'relu', input_shape = (64,64,3) ))  
Ds  
  
✓ [19] model.add(MaxPooling2D(pool_size = (2,2)))  
Ds  
  
✓ [20] model.add(Flatten())  
Ds
```