Adding CNN Layers

Topic: Al-powered Nutrition Analyzer for Fitness Enthusiasts

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Adding CNN Layers

- 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 an 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 downsample 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.

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Adding CNN Layers

First Convolution Layer and pooling

[ ] model.add(Conv2D(32, (3, 3), input_shape=(64, 64, 3), activation='relu')) model.add(MaxPooling2D(pool_size=(2, 2)))

Second Convolution Layer and pooling

• model.add(Conv2D(32, (3, 3), activation='relu')) model.add(MaxPooling2D(pool_size=(2, 2)))

Flatten layer

[ ] model.add(Flatten())
```