Adding CNN Layers

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- ·For information regarding CNN Layers refer to the link ·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 # Initializing the CNN classifier = Sequential() # First convolution layer and pooling classifier.add(Conv2D(32, (3, 3), input_shape=(64, 64, 3), activation='relu')) classifier.add(MaxPooling2D(pool_size=(2, 2))) # Second convolution layer and pooling classifier.add(Conv2D(32, (3, 3), activation='relu')) # input_shape is going to be the pooled feature maps from the previous convolution layer classifier.add(MaxPooling2D(pool_size=(2, 2))) # Elattening the layers

classifier.add(Flatten())