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Convolutional Neural Networks

1. In this project, we were tasked with modifying our previous neural network code so that we can add layers to the network after it’s initialization, and to add convolutional, max-pooling, and flattening layers to the network, not just fully connected layers. Once we have this code, we need to compare its outputs to a network of the same construction made through TensorFlow’s Keras library.

2. In making our code for convolutional and max-pooling layers, we figured it would be easier to implement everything together if the convolutional layers were treated as 2-dimensional in their own functions, but from any other object’s perspective, the inputs and outputs of the convolutional layer were in 1-dimensional lists. This did make some things easier and possibly more efficient, but I think it actually made the flatten layers redundant.

3. n/a

4.

5.