An Introduction to CNN

Exercise 1: Convolution

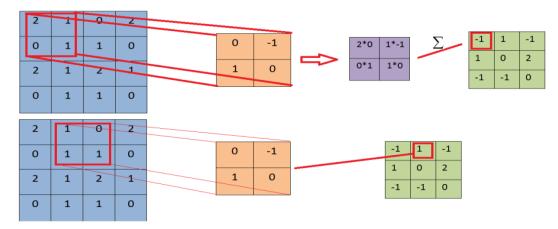


Figure 1: Demo of Convolution

In the given file directory ...\convolution_operation_exercise, you are required to read and understand the code.m file, calculate the convolution results of cat_input.jpg using kernel image and visualize the results in MATLAB.

Using the six different kernels, calculate six different convolution result and check the outputs after visualization.

Exercise 2: Pooling

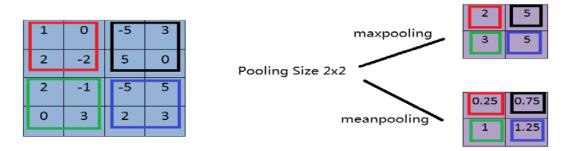


Figure 2: Demo of Pooling

In the given file directory ...\pooling_operation_exercise, you are required to read and understand the code.m file, calculate the pooling results of cat_input.jpg using pooling method and visualize the results in MATLAB.

Using the two pooling methods, calculate the pooling results and check the outputs after visualization.