Baseline CNN – Architecture
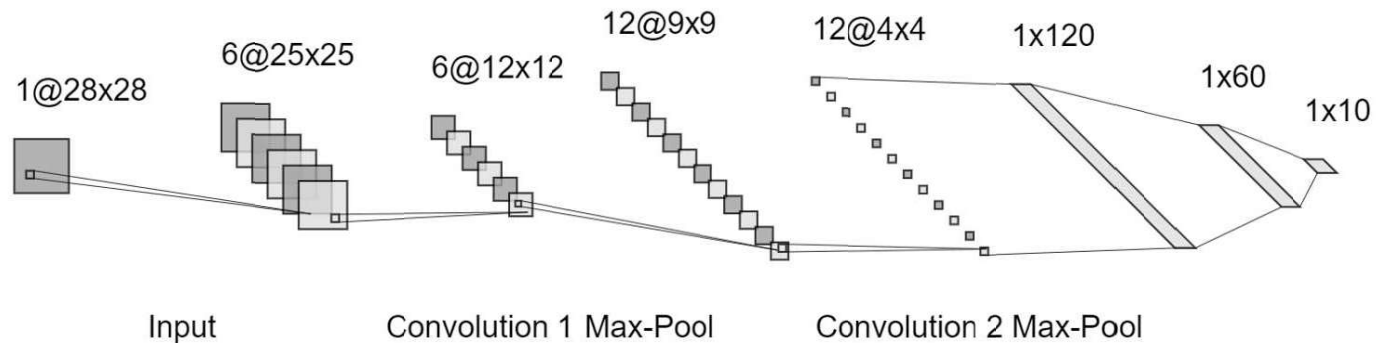
Matrix	Step
1 x 1 x 28 x 28	Input Image
1 x 6 x 25 x 25	Conv. 1 (kernel = 4, stride = 1, padding = 0) Input_channels = 1 | Output_channels = 6
1 x 6 x 12 x 12	Max Pooling 1 (kernel = 3, stride = 2)
1 x 12 x 9 x 9	Conv. 2 (kernel = 4, stride = 1, padding = 0) Input_channels = 6 | Output_channels = 12
1 x 12 x 4 x 4	Max Pooling 2 (kernel = 3, stride = 2)
1 x 120	Linear (Input = 20*4*4, Output = 120)
1 x 60	Linear (Input = 120, Output = 60)
1 x 10	Linear (Input = 60, Output = 10)