**Neural Network Layers:**

**Conv2d1(196,608)- || - MaxPooling1(231,200)- | - Conv2d2(462,400)- ||- Conv2d3(462,400)- ||- MaxPooling2(112,896)- | - Conv2d4(225,792) - ||- Conv2d5(225,792) - || - MaxPooling3(56,448)- |- Flatten(56448)- Dense(1024)- |||- Dense2(38)- Activation(38)**