# Original images

T3\_1

Calendar

Description automatically generated with low confidence

T3\_2

Calendar

Description automatically generated with medium confidence

T4

Graphical user interface, application

Description automatically generated

T5

A picture containing calendar

Description automatically generated

T6

Graphical user interface, application

Description automatically generated

T14

Graphical user interface, application, PowerPoint

Description automatically generated

T24

A picture containing calendar

Description automatically generated

## CNN, no pre-processing

self.conv1 = **torch**.**nn**.**Conv1d**(1,6,kernel\_size=3,padding=0)

self.relu1 = **torch**.**nn**.**ReLU**()

self.pool1 = **torch**.**nn**.**AvgPool1d**(2, stride=2, padding=1)

self.conv2 = **torch**.**nn**.**Conv1d**(6,16,kernel\_size=5,padding=0)

self.relu2 = **torch**.**nn**.**ReLU**()

self.pool2 = **torch**.**nn**.**AvgPool1d**(3, stride=2, padding=1)

self.conv3 = **torch**.**nn**.**Conv1d**(16,50,kernel\_size=7,padding=0)

self.flat = **torch**.**nn**.**Flatten**()

self.drop = **torch**.**nn**.**Dropout**(p=0.2)

self.fc1 = **torch**.**nn**.**Linear**(12400, 100)

self.relu3 = **torch**.**nn**.**ReLU**()

self.fc2 = **torch**.**nn**.**Linear**(100, 6)

self.softmax = **torch**.**nn**.**Softmax**(dim=1)

t3\_1A picture containing text, display

Description automatically generatedt3\_2A picture containing text

Description automatically generated t4Chart, scatter chart

Description automatically generated

t5A map of the world

Description automatically generated with medium confidence t6 A picture containing text, electronics

Description automatically generated t14A picture containing shape

Description automatically generated

t24 A picture containing text, display

Description automatically generated

self.conv1 = **torch**.**nn**.**Conv1d**(1,6,kernel\_size=3,padding=0)

self.relu1 = **torch**.**nn**.**ReLU**()

self.pool1 = **torch**.**nn**.**AvgPool1d**(2, stride=2, padding=0)

self.conv2 = **torch**.**nn**.**Conv1d**(6,16,kernel\_size=5,padding=0)

self.relu2 = **torch**.**nn**.**ReLU**()

self.pool2 = **torch**.**nn**.**AvgPool1d**(3, stride=2, padding=0)

self.conv3 = **torch**.**nn**.**Conv1d**(16,40,kernel\_size=7,padding=0)

self.relu3 = **torch**.**nn**.**ReLU**()

self.pool3 = **torch**.**nn**.**AvgPool1d**(3, stride=2, padding=0)

self.conv4 = **torch**.**nn**.**Conv1d**(40,80,kernel\_size=9,padding=0)

self.flat = **torch**.**nn**.**Flatten**()

self.drop = **torch**.**nn**.**Dropout**(p=0.2)

self.fc1 = **torch**.**nn**.**Linear**(9200, 1000)

self.relu4 = **torch**.**nn**.**ReLU**()

self.fc2 = **torch**.**nn**.**Linear**(1000, 100)

self.relu5 = **torch**.**nn**.**ReLU**()

self.fc3 = **torch**.**nn**.**Linear**(100, output\_size)

self.softmax = **torch**.**nn**.**Softmax**(dim=1)

All: Shape, square

Description automatically generated Except t24A picture containing text, display

Description automatically generated

self.conv1 = **torch**.**nn**.**Conv1d**(1,8,kernel\_size=3,padding=0)

self.relu1 = **torch**.**nn**.**ReLU**()

self.pool1 = **torch**.**nn**.**AvgPool1d**(2, stride=2, padding=0)

self.conv2 = **torch**.**nn**.**Conv1d**(8,20,kernel\_size=5,padding=0)

self.relu2 = **torch**.**nn**.**ReLU**()

self.pool2 = **torch**.**nn**.**AvgPool1d**(3, stride=2, padding=0)

self.conv3 = **torch**.**nn**.**Conv1d**(20,80,kernel\_size=7,padding=0)

self.flat = **torch**.**nn**.**Flatten**()

self.drop = **torch**.**nn**.**Dropout**(p=0.2)

self.fc1 = **torch**.**nn**.**Linear**(19760, 150)

self.relu4 = **torch**.**nn**.**ReLU**()

self.fc2 = **torch**.**nn**.**Linear**(150, output\_size)

self.softmax = **torch**.**nn**.**Softmax**(dim=1)

t3\_1A picture containing text

Description automatically generatedt3\_2A picture containing chart

Description automatically generatedt4Chart

Description automatically generated with medium confidence

t5Map

Description automatically generatedt6Shape, square

Description automatically generatedt14Shape, square

Description automatically generatedt24A picture containing text, display

Description automatically generated

USING THE SAME NETWORK WITH 11 OUTPUTS FOR ALL IMAGES

self.conv1 = **torch**.**nn**.**Conv1d**(1,6,kernel\_size=3,padding=0)

self.relu1 = **torch**.**nn**.**ReLU**()

self.pool1 = **torch**.**nn**.**AvgPool1d**(2, stride=2, padding=0)

self.conv2 = **torch**.**nn**.**Conv1d**(6,12,kernel\_size=5,padding=0)

self.relu2 = **torch**.**nn**.**ReLU**()

self.pool2 = **torch**.**nn**.**AvgPool1d**(3, stride=2, padding=0)

self.conv3 = **torch**.**nn**.**Conv1d**(12,50,kernel\_size=7,padding=0)

self.flat = **torch**.**nn**.**Flatten**()

self.drop = **torch**.**nn**.**Dropout**(p=0.2)

self.fc1 = **torch**.**nn**.**Linear**(12350, 150)

self.relu4 = **torch**.**nn**.**ReLU**()

self.fc2 = **torch**.**nn**.**Linear**(150, output\_size)

self.softmax = **torch**.**nn**.**Softmax**(dim=1)

A picture containing text

Description automatically generatedShape, square

Description automatically generatedShape, square

Description automatically generatedMap

Description automatically generatedShape, square

Description automatically generatedShape, square

Description automatically generatedA picture containing text, screen

Description automatically generated

SEOND RUN OF THE SAME MODEL

Map

Description automatically generated Shape, square

Description automatically generated Shape, square

Description automatically generated A picture containing text, electronics, display, screenshot

Description automatically generated Shape, square

Description automatically generated Shape, square

Description automatically generatedA picture containing text, electronics, display

Description automatically generated

Third run… A picture containing text, monitor, electronics, display

Description automatically generated