

# Multi-View CNN for Shape Classification

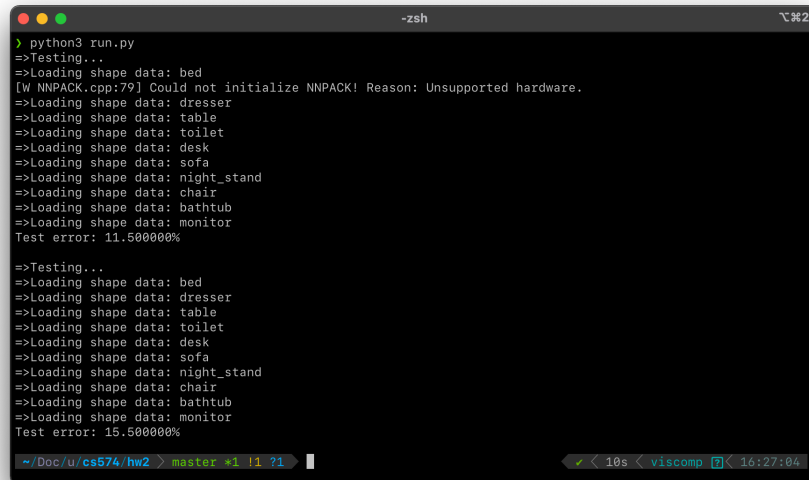
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February 20, 2022

## Results

The test error fluctuates each run as we use stochastic gradient descent to train the network. However, I was able to get the following result:

mean view-pooling 11.5 %  
max view-pooling: 15.5 %



```
> python3 run.py
=>Testing...
=>Loading shape data: bed
[W NNPack.cpp:79] Could not initialize NNPACK! Reason: Unsupported hardware.
=>Loading shape data: dresser
=>Loading shape data: table
=>Loading shape data: toilet
=>Loading shape data: desk
=>Loading shape data: sofa
=>Loading shape data: night_stand
=>Loading shape data: chair
=>Loading shape data: bathtub
=>Loading shape data: monitor
Test error: 11.500000%

=>Testing...
=>Loading shape data: bed
=>Loading shape data: dresser
=>Loading shape data: table
=>Loading shape data: toilet
=>Loading shape data: desk
=>Loading shape data: sofa
=>Loading shape data: night_stand
=>Loading shape data: chair
=>Loading shape data: bathtub
=>Loading shape data: monitor
Test error: 15.500000%
```