Project Code

1. Project code

See Attached Files “FinalProjectCode” and “HelperFunction”

1. Short Description as how to run your code

I obtained my data files from number 6. on NASAs site: <https://ti.arc.nasa.gov/tech/dash/groups/pcoe/prognostic-data-repository/>

The “HelperFunction” MATLAB file assists the main code ran in FinalProjectCode. Input into the functions based on updated runs to change conditions. Problems arose trying to add in some of the classic NN architecture inputs into the main body of code, before that it was running fine but based on what was talked about in the class I should have tried to implement plots, architecture, and the like, like what was done moreso in class. Delete NN section if desired to run.

1. PowerPoint

PowerPoint is uploaded as “Ryan\_Patton\_ProjectProgressV.pptx”

PowerPoint added a slide on Architecture and Confusion Matrix. The architecture I was trying to implement was [30, 20, 20] hidden neuron layers, the Confusion Matrix represents a typical Confusion Matrix, not from code. Same with Architecture to show how it would be accomplished. I had originally converted to xlsx files because it was easier to handle based on what I had learned in class but I got comfortable using .txt from resources.