

Requirements Document v1.0 - MUN-NN Toolbox

Reza Shahidi

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1 High-level overview

For the MUN-NN Toolbox project, it is expected that the final product be a graphical interface for designing neural networks, as well as training them and testing them on new data. The product should be user-friendly and easy-to-use. The software should also have the ability to save the current state so that the user may load it and develop it further later. Some thought should be put into how the state should be saved in a file. You can assume that the file suffix should be .nn, while training data should be stored in files with names ending in .train.dat while test data should be stored in files with names ending in .test.dat. The software should raise an alert if the inputs are not of the correct dimensions when being input to the neural network.

2 Services

It is expected that a service/micro-service architecture be used for the software where each service is responsible for a given function and has a specific purpose. The design of the software should be such that it still function (though not necessarily with full functionality) if all services for the software are not running at a given time.