Kayanna Chandler

Statistical Programming with R

Project Splash Sheet

Summer 2016

7/22

Description

* For my project, I would like to showcase some features of the R package NeuralNet by showing everyone how to create a simple shallow Neural Network.
* Depending on difficulty and time constraints, I would like to show 1 – 3 implementations of Neural Networks with varying amounts of hidden layers and neurons.
* Depending on difficulty and time constraints, I would also like talk about some applications of Neural Networks, and maybe provide a tutorial/demo on how to use a network for character recognition (I plan on using it to classify a range of numbers, perhaps 1 – 10).
* If I can make it this far before the due date (I doubt it), I would like to use a Neural Network to approximate answers to variations of the Travelling Salesman problem. That problem has been an interest of mine for some time now.