Final Project Checkpoints

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Fall 2014 - Bioinformatics (CPSC 68)

1 November 10, 2014 - Lab 10

Goals For Lab 10, we plan to have all of our initial data collected. We will parse the data to get it in the format we need, and analyze the data for any insights necessary for our implementation.

Progress Database: http://autosnpdb.appliedbioinformatics.com.au/index.jsp?species=wheat

Acquire and implement BootRank. Research flaws, weaknesses, and key features. Adapt algorithms to our data and look for prediction overlap between already existing work.

Difficulties Unable to acquire SNP data. Had to re-form our initial proposal, relocate relevant databases, and restructure goal and implementation methods.

2 November 17, 2014 - Lab 11

Goals Acheive a better understanding of Neural Networks and how we can apply them to our ultimate goal, predicting breast cancer recurrence. Begin implementation of our own neural network.

Progress We have located and run through a few online tutorials. We have begun looking at implementations.

Difficulties Technical details concerning neural networks, e.g. evaluation methods and optimizations.

3 November 24, 2014 - Lab 12

Goals Finish researching other works. Finish developing and debugging our algorithm. Begin comparison of results with pre-existing prediction methods.

Progress Finished implementing neural network, still needs a bit of cleaning-up. Did rough research and comparison of other works.

Difficulties Narrowing the variables to use in our data is posing a challenge. Data is provided as R-code, so navigating R and formatting our data is taking longer than expected.

4 December 1, 2014 - Lab 13

Goals Begin paper: methodology, validation, related work. Analyze experiments.

Progress

Difficulties

5 December 8, 2014 - No Lab

Goals Finish paper. Think of extensions. Compare results to what we can expect from other algorithms, and any discrepancies in results. Evaluate results on a higher, biological level.A

Progress

Difficulties

6 Exam Week

Goals Finalize Paper and Presentation. Practice our 10 minute talk.

Progress

Difficulties