Bingyu Wang

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Education

Northeastern University Boston, MA
Candidate for PhD of Computer Science, GPA: 3.85/4.00 *Jan.2015 - present*
Core Courses: Algorithms · Machine Learning · Data Mining · Information Theory
Teaching Assistant: Machine Learning · Information Retrieval

Northwest University Xi'an, China
Bachelor of Engineering in Software Engineering, GPA: 3.30/4.00 *June 2012*

Publications

"Topic-Factorized Ideal Point Estimation Model for Legislative Voting Network" *ACM SIGKDD 2014*

Professional Experience

MassMutual Financial Group, Boston, MA *Jan-June 2014*
Data Analyst (Python)

- Recognized the pattern and performed analysis and predictions on the web log data of Oppenheimer Website using the Aster Express Tool from Teradata
- Analyzed the MassMutual HR data and produced the predictions on the Quality of Hire
- Performed twitter analysis for GeoAnalytics project to collect data from twitter using sentimental keywords and find out the areas where MassMutual can promote the sales

Federal Home Loan Bank, Boston, MA *June-Aug 2013*
Information Technology Intern (Java)

- Developed a Test Automation Framework that can easily be used to test different web based projects using various technologies, such as Selenium, Open2Test and Eclipse
- Delivered documentations, including test script based on SharePoint, test results covering test suite execution and screenshot, and user manual for non-computer staff

Software Engineering Laboratory, Northwestern Univ., Xi'an, China *Feb-Nov 2011*
Student Data Analyst (MATLAB)

- Designed models of data warehouse, including concept, logic and physics models
- Eliminated redundant and obsolete data through applications of various algorithms
- Built prediction models from vast data source using data mining techniques

Project Experience

Research on Web Page Ranking: Based on Learning to Rank Algorithms *2013*

- Implemented the RankBoost and Gradient Boosting Decision Tree Algorithms to perform the web page ranking task
- Improved the accuracy by building decision tree in heap structure and increased the running speed by simplifying the squared error formula and sorting the features
- Reduced the running time from several hours to almost half an hour on 1GB datasets

Solving The Issue of Mazes: Shortest Path Based-on Genetic Algorithm, Capstone *2012*

- Coded the front-end GUI for generating and configuring mazes using MFC in C++
- Studied and developed a new genetic algorithms (sub-optimal) to search for shortest path under various population size, length of gene, mutation rate and crossover rate
- Evaluated and assessed performance and attribute of the algorithm on various platforms

Computer Knowledge

- Programming Languages (Proficiency): Java, Python, MATLAB
- Programming Languages (Familiar): C, C++, LaTex
- Operating Systems and Databases: UNIX-Like (Mac OS X, GNU/Linux), SQL Server 2000, SQLite
- Web and Mobile Development: D3.js, Android Development