Nan (Miya) WANG

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Programming Language: Python, R, SQL
Database: Oracle, IBM DB2, SQLite, MySQL, HDFS, Amazon S3;
Software & Framework: Spark, MapReduce, Azure, Databricks, Tableau, Spotfire, Weka, SPSS Modeler, SAS;

EXPERIENCE

Fordham University, Dr. Katsamakas (Area Chair) 01/2016 – present
Research Assistant *(Data Science)* New York, NY
- Developed python programs to automate data crawling from web sources;
- Loaded unstructured data into Hadoop File System (HDFS) and created ETL jobs;
- Implemented text processing and topic modeling (latent Dirichlet allocation) with Spark API;
- Processed and analyzed image data through convolutional neural network in Caffe framework;
- Prepared tutorials for Business Intelligence (Tableau) and Cloud Computing (Machine Learning in Azure) workshops;

Converseon 08/2016 - Present
Intern, Data Analyst *(Digital Consultancy)* New York, NY
- Created advanced SQL queries to retrieve market data with 10% higher relevancy;
- Integrated, validated and cleansed data from various sources for ad-hoc analysis;
- Conducted sentiment analysis on proprietary big data analysis software;
- Partnered with clients to generate reports/dashboards with deep-dive insights;

AXA, SL Financial Group 2015
Financial Analyst *(Financial Modeling)* Hong Kong, China
- Performed equity research to monitor new/ongoing developments in real estate/financial industries in different markets;
- Prepared, maintained and distributed ad-hoc reports for different levels of management;
- Conducted analysis of portfolio and performance attribution (Mean-variance and MC simulation);
- **Top Performer Award**; "2nd Runner Up" as a team. (Total 20 teams).

Pacific Northwest National Laboratory 2014
Business Contracts *(Database)* Richland, WA
- Retrieved, combined and cleansed data from a vast range of proprietary/government databases/applications/systems;
- Analyzed large amount of regulatory documents/data to assist management of multi-million dollar contracts portfolio;
- Partnered with offsite clients to determine contract performance, delivery schedules, and estimates of budgets;

PROJECT

Fordham University
Parallel Data Processing
- Loaded option data into S3 and built predictive models(Nearest Neighbors/Support Vector Machine) through Spark API;
- Implemented Newton/Muller-Bisection/Harley's method for option pricing models with multi-threading techniques;
- Processed and visualized gigabytes of high-frequency trading data;

BlueOptima
Social Network Analysis
- Cleaned and transformed data (over 500,000 developers' coding commitment) collected from Agile tools (JIRA and Git);
- Conducted social network analysis and community detection to evaluate developers' productivity and collaboration pattern;
- Developed visualization (R igraph) and application (R Shiny) for a bipartite network with thousands of vertex and edges;

Deloitte
Machine Learning
- Improved previouss model (RandomForest) accuracy by 6% with advanced performance tuning techniques (Sklearn);
- Developed a web application to deploy the Machine Learning model using Microsoft Azure API;
- Interpreted the model to levels of management with user-interactive visualization; (Matplotlib)
- **First Prize** in Fordham March Madness Data Crunch Competition;

EDUCATION

Fordham University, Information Systems Department **Expected 12/2016**
Master of Science, Business Analytics, GPA: 3.9
- Courses: Text Analytics; Big Data; Data Mining; Database Management; Risk Analytics; Financial Programming;

Nanjing Normal University **2015**
Bachelor of Arts, International Business (Environmental Engineering), GPA: 3.6
- Courses: Microeconomics, Global Finance, Visual Basic Programming, Advanced Mathematics, Fundamental Physics;

Others

Certificates: Google Adwords & Google Analytics;
Membership: Steering Community in Fordham Business Analytics Society; Fordham Fintech Network; Red Cross Society of China;