Nan (Miya) WANG

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Technique: Machine Learning, Graph Analysis, Statistical Analysis, Natural Language Processing, Big Data;
Language: Python, SQL, R;

EXPERIENCE

Fordham University, Information Systems Department 2016.1- Now
Research, Data Science New York, NY

- Designed a graph-based recommender system with high MAP (mean average precision at 10) to optimize workload assignment in software development organizations (Python, R, Neo4j);
- Researched on text mining (Scrapy, Hive, Spark Streaming) to predict mobile app sucesss;
- Programmed with big data techniques (e.g. conducted exploratory analysis on gigabytes of geospatial data with Spark);
- Conducted transfer learning with pretrained convolution neural network models (PyCaffe and Keras);
- Assisted data mining course teaching (e.g. explained and implemented Tree/Nonparametric models in Azure) and business intelligence course teaching (e.g. demonstrated marketing segmentation with Tableau);

Converseon 2016.8 -2017.3
Digital Marketing New York, NY

- Analyzed massive web data with natural language processing techniques (e.g. topic modeling, LDA) to improve clients' customer relationship management within multiple markets;
- Automated data feeds and preprocessing through open source (Python) and Enterprise software (Brandwatch, etc.);
- Performed media/content metric analytics and statistical analysis (time series, autocorrelation, cross-correlation, etc.);
- Translated complex analysis through dashboards/visualization (Tableau, Excel, PPT, etc.) into actionable insights;
- Worked cross-functionally among data analytics/engineering/business development teams;

AXA 2015.7 - 2015.8
Intern, Financial Data Analysis Hong Kong, China

- Performed extensive fundamental research by collecting web information, analyzing financial reports, pulling data from databases (SQL) and analyzing (time series/density/Monte Carlo Simulation) transaction data (R);
- Top Performer Award; "2nd Runner Up" as a team. (Total 20 teams).

Pacific Northwest National Laboratory 2014.7 - 2014.8
Intern, Business Analytics Richland, WA

- Retrieved data for managerial review from intranet, company database (SQL), paperless system, and regulatory information from government databases (e.g. SAM, NAICS, SBA, etc.)
- Partnered with offsite clients to determine contract performance, delivery schedules, and estimates of budgets;

PROJECT

Deloitte
Machine Learning

- Applied machine learning modeling (e.g. Logistic Regression/Gaussian Process/Support Vector Machine/Gradient Boost/Random Forest with Python Scikit Learn) and optimization techniques (e.g. creative feature engineering, performance tuning, performance validation and model ensemble);
- Actively communicated with data scientists and statisticians to deliver performance and interpreted the model to levels of management with a python application (deployed on Azure) and user-interactive visualization (R Shiny);
- First Prize in Data Crunch Competition;

United Nations
Natural Language Processing

- Collected and parsed heterogeneous web texts (pdf/word/txt/html) using NLTK;
- Applied document semantic analysis (pattern cognition with N-Gram, TFIDF, etc.) and supervised learning to classify and extract needed information from 73 nations' documents of cyber security strategies;

EDUCATION

Fordham University 2017
Master of Science, Business Analytics, GPA: 3.9

NYC Big Data Bootcamps 2016
AWS, Spark, Scala

Nanjing Normal University 2015
Bachelor of Arts, International Business (Environmental Engineering), GPA: 3.6

CERTIFICATION

Udacity: A/B testing;
Coursera & edX: Deep Learning; Machine Learning; Distributed Data Mining; Linux; Social and Economic Networks; Text Retrieval and Search Engines;
Google Adwords & Analytics Certified;