Nan (Miya) WANG

(646) 460-5769 | nwang26@fordham.edu | website | Github | LinkedIn

Language: Python, R, SQL;
Technique: Applied Machine Learning, Statistical Analysis, Text Analytics, Big Data, Social Network Analysis;

EXPERIENCE

Fordham University, Dr. Katsamakas (Area Chair) 2016-2017
Research Assistant, Data Science New York, NY
- Assisted data mining course teaching (e.g. explained and implemented Decision Tree, Generalized Linear Regression with Microsoft Azure) and business intelligence course teaching (e.g. performed sales and marketing segmentation with Tableau; conducted ad-hoc analysis with SAS macros);
- Programmed with big data techniques (e.g. conducted exploratory analysis and network analysis on gigabytes of geospatial data to analyze cab passengers' behavior with Spark);
- Analyzed and evaluated millions of corporate software developers' behaviors (collaboration pattern/commitment/working efficiency) through a combination of proprietary SaaS service and social network analysis (R igraph);
- Trained models (e.g. configured a convolution neural network model with Caffe to label picture memorability);
- Built data collection and storage pipeline (e.g. gathered tweets with streaming API and SQLite to monitor social crisis);

Converseon 2016-2017
Analyst, Digital Data Analysis New York, NY
- Analyzed massive social conversations with digital analytics and natural language processing techniques (e.g. topic modeling by LDA/sentiment analysis by LSTM/emotion detection) to help global clients improve crisis management/branding/customer relationship management/marketing campaign evaluation within multiple markets;
- Performed media/content/measurement analytics and statistics analysis (autocorrelation, cross-correlation, etc.);
- Automated digital data feeds through social listening applications (e.g. Crimson Hexagon) and Python scripts;
- Worked cross-functionally among data analytics/engineering/business development teams and translated complex analysis through dashboards/visualization (Tableau, Excel, PPT, etc.) into actionable insights;

AXA, SL Financial Group 2015
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);
- Worked cross-functionally among quantitative analysts/sales/managers and generated ad-hoc reports;
- **Top Performer Award**; "2nd Runner Up" as a team. (Total 20 teams).

Pacific Northwest National Laboratory 2014
Intern, Contacts 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/Nearest Neighbors/Support Vector Machine/Gradient Boost/Random Forest with Sklearn) 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 Web app (deployed with Microsoft Azure) and user-interactive visualization (R Shiny);
- **First Prize** in Data Crunch Competition;

United Nations
Text Mining (Gitub: https://github.com/ICT4SD)
- 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, Information Systems Department 2017
Master of Science, Business Analytics, GPA: 3.9

Metis, NYC Data Science Bootcamps 2016

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

CERTIFICATION

Google Adwords & Analytics Certified;
Coursera&edX: Machine Learning; Text Retrieval and Search Engines; Distributed Data Mining; Hadoop Platform and Application Framework; Introduction to Linux; Social and Economic Networks: Models and Analysis;