Wang Nan (Miya)

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EDUCATION

FORDHAM UNIVERSITY, Information Systems Department　　　　　　　　　　**Expected 12/2016**
Master of Science, Business Analytics, GPA: 3.9
- Courses: Web Analytics; Text Analytics; Information Fusion; Big Data; Data Mining for Business; Data Warehousing; Database Management; Business Performance Management and Risk Analytics;

NANJING NORMAL UNIVERSITY　　　　　　　　　　**2015**
Bachelor of Arts, International Business, GPA: 3.6
- Courses: Advanced Mathematics, Fundamental Physics, Economics, Global Finance

PROJECT

Distributed Machine Learning on Google Apps (technically and managerially lead the team)
- Automate data collection and data storage by deploying web crawler on Amazon EC2 and storing streaming text data in S3;
- Achieve faster computational analysis by loading data into Apache Spark framework (Spark SQL), transforming data type into SparseVector and applying principal component analysis (PCA);
- Automate the process of categorizing apps through building a Gaussian Naïve Bayes model (MLlib);
- Improve user experience of upgrading apps by summarizing and labeling update descriptions through building a Latent Dirichlet Allocation (LDA) clustering model Pipeline (MLlib);
- Help predict app success through analyzing correlation between app download number, app star rate and app category, software version, operating systems, size of the Android Application Package, and etc.,

2016 Fordham March Madness Data Crunch Competition (technically and managerially lead the team)
- Maximize the predictive accuracy of model (RandomForest) through applying techniques such as feature engineering, cross validation, grid searching, hyperparameter tuning and system ensemble; (Python Sklearn, Pandas and Matplotlib)
- Enhance model interpretability by deploying model as web service (Azure) and developing user-interactive visualization; (R)
- **First Prize** in Fordham March Madness Data Crunch Competition, sponsored by Deloitte;

EXPERIENCE

Converseon　　　　　　　　　　**August 2016 - Present**
Data Analytics Intern　　　　　　　　　　**New York, NY**
- Develop social media metrics, including volume, sentiment, emotion and topic, to asses online brand performance and customer engagement of a brand and/or a product;
- Generate insights actionable by different stakeholders by retrieving (SQL) and analyzing (sentiment analysis, Python and Excel) organic and owned social media conversation;

Fordham University, Dr. Katsamakas, Area Chair, Information Systems Department　　　　　　　　　　**June 2016 – Present**
Research Assistant　　　　　　　　　　**New York, NY**
- Research: Quantify developers' commitment by conducting social network analysis and graph visualization; (R)
- Crawl historical and streaming tweets and use SQLite for storage; retrieve, transform and analyze unstructured data;
- Perform academic tutoring of data visualization and business intelligence using Tableau;

Fordham University, Dr. Dobin, Information Systems Department　　　　　　　　　　**January 2016 – May 2016**
Research Assistant　　　　　　　　　　**New York, NY**
- Research: Quantify picture memorability by training LaMem model; (Convolutional Neural Network on Pycaffe)
- Assist course teaching of Data Mining for Business by preparing tutorials of modeling with algorithms including Naïve Bayes, neural network, logistic regression and K-means in Microsoft Azure;

AXA Hong Kong SL Financial Group　　　　　　　　　　**July 2015 – September 2015**
Intern, Financial Analyst　　　　　　　　　　**Hong Kong, China**
- Merge financial data from various sources such as Yahoo!finance and conduct time series analysis;
- Optimize the performance of hedge fund portfolio by building Markowitz Mean-Variance Model and conducting simulation that considers transaction cost, slippage and avoids look-ahead bias using R;
- **Top Performer Award** in SL Financial Group in AXA (Hong Kong);
- Awarded '2nd Runner Up' in internship competitions as a team. (Total 20 teams).

Pacific Northwest National Laboratory (PNNL)　　　　　　　　　　**July 2014 – August 2014**
Intern, Business Contracts　　　　　　　　　　**Richland, WA**
- Examine contract performance, delivery schedules, and estimates of costs of material, equipment, and production;
- Extract data from company database and paperless system to assist management of multi-million dollar contracts portfolio, acquisition planning and contracting method determination;

Others

Programming Language: Python, R, SQL;
Database: MySQL, Amazon Redshift, MongoDB, IBM DB2, IBM Bluemix DashDB
Software: Weka, SPSS Modeler, Tableau, Spotfire, Qlikview, Cognos, Neo4j;
Certificates: Google Adwords & Analytics; Coursera: Machine Learning, Hadoop Platform and Application Framework; edX: Excel for Data Analysis & Visualization; Distributed Machine Learning with Apache Spark; Introduction to Linux;