Jiamin (Viola) Zhong

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EDUCATION

Georgetown University M.S. in Data Science and Analytics

May 2021

• Leadership: TA for Optimization and for Data Science, Graduate International Orientation Ambassador

University of Illinois at Urbana-Champaign B.S. in Mathematics and Statistics, Business Minor D

Dec 2017

• Coursework: Linear Algebra, Numerical Analysis, Corporate Finance, Principles of Marketing

WORK EXPERIENCE

MoSeeker Inc., Python Engineer, Shanghai, China

Aug 2018-Dec 2018

- Trained Unigram and Bigram Part of Speech Tagger with Hidden Markov Model(HMM) based language model with accuracy of 98%
- Increased accuracy of job recommendation lists by 7% after translating English job descriptions paragraph by paragraph, instead of word by word, using Baidu dictionary API
- Developed Python script for Client Success team to mark if applications match job descriptions accordingly
- Collaborated with AI recommendation team to collect negative samples of jobs that users viewed but didn't apply for, analyzed and visualized the results of A/B test

ABC-CA Fund Management, Risk Analyst Intern, Shanghai, China

April 2018-June 2018

- Researched portfolio performance measurement models (especially campisi framework) and prepared risk management consultation by analyzing a database of financial reports from Wind System by SQL
- Created rate of return charts to compare monthly and yearly performance of 10+ fund management companies using VBA
- Delivered the Financial Risk Management section of annual report by surveying profiles of 120+ fund management firms, and authored the English version of Company Year 2018 Risk Management Policy

Illinois Geometry Lab, Student Scholar, Urbana, IL

Aug 2017-Dec 2017

- Explored the properties of functions that automata recognized and investigated the extent of complexity of functions corresponding to automata
- Concluded that a continuous function is Hölder continuous for log base β_1 of β_2 if it is regular
- Illustrated that Hilbert curve is regular by finding an automaton which recognizes it

Sociètè Gènèrale, Credit Analyst Intern, Wuhan, China

Dec 2016-Jan 2017

- Validated credit risks for a loan project by developing Logistics Regression Models using R and utilized cross validation method to calculate accuracy of predictions
- Conducted fraud investigation and represented the team to communicate with clients and institutions
- Assessed the property condition of the enterprise according to the financial statements

PROJECTS

Machine Learning and Statistical Modeling on Event Attendance in New York (Python)

- Collected and cleaned 20,000+ events/businesses data with total of 10+ attributes by Yelp API and fetched transportation data with 17 attributes within 1km to the events by Here Nearby Stations API
- Identified multi-dimensional outliers with LOF algorithm followed by implementing topic modeling, hypothesis testing, cluster analysis and predictive analysis with 5 classification models
- Introduced association rules using aprori algorithm with 3 support levels to detect relations between factors and popularity of events

Exploration Data Analysis and Predictive Modeling on Employee Turnover (R)

- Evaluated accuracy of predicting turnover rate with random forest/logistic classifier/tree models based on human resource dataset
- Applied variable importance plots of predictors from the HR dataset with three models to analyze the factors that affect turnover rate

Comparison of Campus Crime with Crime in the Surrounding City (SAS)

- Merged and cleaned on-campus arrest dataset from 2009-2011 with FBI crime records dataset in 2010 by states and created new variables to compare and determine the extent of safety
- Generated income data set which has median income data for each state and analyzed how income levels of each state correlate with crime rate by CORR Procedure

SKILLS

• Languages: Python, SQL • Software: R, MatLab, SAS • Cloud Platform: AWS(EC2, EMR)