Phoebe Cai

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EDUCATION

Cornell University | New York, NY

Dec 2019

Master of Science in Biostatistics and Data Science

GPA: 3.88

• Coursework: Biostatistics(R), Epidemiology, Statistical Programming with SAS, Data Management (SQL)

Hobart and William Smith Colleges | Geneva, NY

June 2017

Bachelor of Arts in Mathematics and Economics

GPA: 3.68

- Coursework: Linear Algebra, Econometrics(SAS), Intermediate Programming(Java), Math Statistics(MATLAB)
- Economics TA for Principles of Econ., Macro Econ & Micro, Statistics (SAS)
- Mathematics TA for 5 classes for a year, participate and offer suggestions in professors' weekly meeting

PROFESSIONAL EXPERIENCE

Financial Analyst Intern

06/2018-08/2018

Chengdu Hongqi E-commercial

Chengdu, China

- Collaborated with other teams across the organization to better use and understanding of data
- Developed KPI and metrics like new customer growth rate, transaction growth rate and retention rate
- Conducted exploratory data analysis in Python to analyze business trends based on processed transaction data
- Applied Tableau to build daily, weekly, monthly dashboard and provide insights behind data
- Developed a predictive model using R, successfully improved the prediction of the fraudulent activates in the remaining months in 2018 by 33.3% accuracy, and decreased the company's monthly loss by 19%

Data Analyst Intern

08/2015-12/2015

Esperity

Brussels, Belgium

- Redesigned and implemented the database structure in SQL by adding functions to manage the duplicate information in the original users' information database
- Applied SQL to identify and classify users' behavioral patterns
- Worked with cross-functional teams, like product managers and engineers
- Built daily, weekly, monthly dashboard to provide insight about the churn rate, customer order frequency, order volume, total order amount
- Provide business insights behind data and present to stakeholders

SELECTED PROJECT

Improve Account Open Rate

- Helped bank client design a new algorithm to target customers with higher potential to apply for credit card optimize marketing campaign performance
- Used the scikit-learn in Python to apply Hierarchical clustering to cluster customers into 5 groups
- Designed A/B testing to compare the result and present the insight to clients
- Improved the account open rate by 35% within two months

Prediction on Health Insurance

- Performed data manipulation with R to process healthcare related insurance data (Place of residence, Wealth, Mother's education, Father's education, Age of the mother & etc.)
- Built classification models (Logistic Regression and Random Forest) to predict the probability of low-weight infant
- Optimized model performance using cross-validation
- The Random Forest suggests age is the most important factor and the accuracy of prediction (90%) is much better than the Logistic Regression (50%)

SKILLS

- Technical Skills: Data Mining, Analytics, Data Analysis, SaaS in cloud, Machine Learning
- Big Data Engineering: SQL, Python, Apache Hadoop, Excel, Data Visualization, SPSS, Cognos
- Soft Skills: Self-learning, Problem-solver, Interpersonal Skill, Communication, Project Management, Risk management, Attention to Detail, Team-oriented, Innovation