XINYI ZHANG

zhangxinyi@uchicago.edu | (415)813-0935 | Chicago, IL, 60611

EDUCATION

UNIVERSITY OF CHICAGO

Chicago, IL

Master of Science in Analytics (GPA: 4.0/4.0)

Dec 2022 (Expected)

Related Courses: Statistical Analysis, Data Engineering Platforms for Analytics, Data Science for Consulting, Data Mining,
Financial Analysis, Linear & Non-linear Models, Time Series and Forecasting, Machine Learning & Predictive Analytics

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Santa Barbara, CA

Bachelor of Science in Statistics and Data Science

Aug 2020

Related Courses: Prob & Stats, Stats for Econ, Design of Experiments, Stat Machine Learning, Statistical Process, Time Series, Survival Analysis, Methods of Analysis, SAS Base Program, Stochastic Process, Methods of Analysis, Regression Analysis

PROJECT EXPERIENCE

Income Classification (Python)

Winter 2022

• Classified and analyzed people's income level based on their background information (using logistic regression, SVC, decision tree, random forest, gaussian naive bayes models) to help companies making more efficient marketing strategies.

Animation Recommendation (SQL, Python, Tableau)

Fall 2021

- Created refined model to study the trend of animation and the development of the anime studios by utilizing Excel, MySQL
- Designed and developed interactive maps and tables using Tableau, adjusted the unbalance data by using SMOTE and measured the balanced data by ROC and precision-recall curve

"Gold Miner" User Empower Recommendation Engine (Python)

Fall 2021

- Designed and constructed the recommendation system to boost online book sales using collaborative filtering in Python
- Delivered a more efficient user-based recommendation engine through unsupervised segmentation/clustering approach

Application of DMAIC to Improve the Delivery Efficiency of FedEx corporation (R)

Summer 2020

- Analyzed and applied six sigma DMAIC steps independently to understand the causes of delay for FedEx deliveries
- Acquired and refined the factors which may affect the delivery efficiency and come up with strategies to avoid delay

Country Level Election Result based on the Census Data of Different States (R)

Spring 2020

Orchestrated team of three as the project lead to build the classification model and applied logistic classifier, KNN method, clustering and decision tree, and random forest method using R to determine the most suitable methods

Mauna Loa CO₂ Data Analysis (R)

Spring 2020

Predicted the next 2 years of CO2 volume in Mauna Loa area as a signal of volcanic eruptions though time series model.

Recidivism in United States (R)

Fall 2019

- Analyzed the relationship between rearrest time and the key factors such as such as age, financial aid, marriage, race, previous offense times, and visualized the relationship by utilizing Kaplan-Meier estimation
- Performed log-rank test and built the cox proportional hazard model, confirmed final model by Anova table

WORK EXPERIENCE

CHINA INTERNATIONAL CAPITAL CORPORATION

Beijing, China

Data Analysis Intern

 $Summer\ 2020$

- Collaborated with financial team on collecting data, analyzing indicators and forecasting market trends using time series model
- Improved the functionality and efficiency of testing for web user service by implementing automatic testing algorithms

CHINA SECURITIES Financial Analysis Intern

Beijing, China

Summer 2019

- Completed early stage of asset securitization, the transaction structure, terms setting, bond market monitoring, innovative product research independently.
- Participated in the successful issuance of the fourth phase of non-performing asset securities of Jianxin in 2019

TEA SHOP IN CUPERTINO

Cupertino, CA

2016 - 2018

- Hired and trained more than 30 new employees, arranged the daily based schedule for 15 employees at the local store
- Amplified store profit by 15%, reduced regular costs by 10%

SKILLS

Store Manager

- Programming: Python, SQL, R, SAS, C++
- Tools & Systems: Tableau, Mango DB, Neo4j, Excel, Word, PowerPoint