Zelong Wang

Contact

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GitHub/Personal Web
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Skills

Python
Excellent

Stata
Very Good

R
Very Good

Microsoft Office Suit
Good

Java
Average

MATLAB
Average

Git
Average

Tableau
Average

HTML
Some Experience

Mandarin
Excellent

Time management
Excellent

Will learn SQL/NoSQL and Hadoop systematically this Fall

Education

The University of California, San Diego | 2020-Present | GPA:3.98

B.S | Data Science

Related Coursework: Python, Java, HTML, Data Structures, Data Science Algorithms, Web Scraping, Data Processing, Visualization, Machine Learning, NLP basics, Deep Learning basics.

B.S | Joint Major in Math and Economics

Related Coursework: Calculus, Linear Algebra, Numerical Analysis, Optimization, Probability and Statistics, Microeconomics, Econometrics (t and F statistics, Regressions, experiment design, panel data, etc.), Operations Research.

Experience

Research Assistant | Professor Dale Squires and Professor Richard Carson | Aug. 2022 - Present
- Explore the underlying pattern in terms of international organizations and their membership fees.
- Extract and prepare contribution data from UN reports since 1950 using Python and OCR API.

CS PACE Program Researcher | UCSD | Apr. 2022 - Present
- Research and review on CS cohort program of the forerunners.
- Design CSE cohort programs and build courses.

Research Assistant | Professor Richard Carson | Dec. 2021-Present
- Did literature review and gained background knowledge on discrete choice models and related topics.
- Gathered, arranged, and corrected research data to create representative graphs used for academic paper.
- Performed statistical and qualitative analysis. Wrote code to achieve conditional logit model.

Data Analyst/Tech VP | Lumnus Consulting (Student Enterprise) | Nov. 2021-Present
- Collaborated with business-unit leaders to identify and prioritize problems.
- Built prediction models based on historical Instagram and Twitter data. Created visualizations and analyses for the team. Delivered project presentations on how we should present our organization on social media.
- Organized team events and fostered team communication.

Data Manager & Builder | Robotics Team | 2018 - 2020
- Helped build robots. Gathered and analyzed data from different games. Figured out competition and alliance strategies. Excel and Python were used.

Tutor & Math Team Leader | 2019 - 2021
- I taught peers who were interested in math problems outside the scope of class materials.
- Taught AP courses and middle school English during summer in Shanghai.

Self-Driven Projects

Forage Data Analytics Virtual Experience programs | Python, Tableau, Excel, Git
- Accenture: After cleaning data anomalies and merging data in Python, created Tableau dashboard that demonstrates relationships between key features. Practiced storytelling and presentation skills by delivering our findings.
- BCG: Deployed automatic EDA using SweetViz. Defined, assigned price sensitivity to each customer. Tested hypothesis using permutation test, K-S test, and heat map. Predicted customer churn using Sklearn Random Forest.

Analysis of Power Outage Status in the Continental U.S. | Python, Excel
- Went through the full process of questioning, researching, data cleaning & EDA, missingness assessment, hypothesis test, baseline model, more feature engineering, final model, and fairness analysis.

Indian Crop Production and Indian Climate Analysis | Python, Slides
- Literature review on previous reports about Indian agriculture, pastoralism, and climates.
- Data gathering, processing, interactive visualization using bs4, JSON, Geopandas, Altair, Folium, Plotly in Python
- Reported findings and provided suggestions

Wealth Prediction based on 1991 Survey of Income and Program Participation (SIPP) | R
- Gained background knowledge about data. Applied EDA, feature engineering.
- Incorporated and compared polynomials and splines in GAM. Tested full OLS, Lasso, Ridge, Stepwise regression model and Random Forest model.