Jieyi Sun

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WORK EXPERIENCE

Plan-et Systems Counsultant, LLC - Data Analyst / Visualization Specialist
June 2022 - Aug 2022   Campbell, CA

- Acquired Ocean Health Index data from primary and secondary sources. Developed and implemented databases and maintained data collection systems to provide real-time insights into the oceanal tourism and recreation industries, marketing funnels.
- Analyzed Ocean Health Index data using statistical techniques and provided reports. Identified, analyzed, and interpreted trends and patterns in complex data sets by creating interactive visualization dashboards using python and Tableau.
- Designed and implemented A/B experiments & testing for customers' recreation products in different coastal cities to improve the conversion rate and reduce churn.

Georgetown University - Assistant Academy Director/ Teaching Assistant
June 2022 - current   Washington DC

- Designed and planing a simulation with guidance for Data Science courses. Helped students with their data science projects.
- Established appropriate boundarues with students in compliance with the University's Protection of Minors Policy.

China Telecom - Data Analyst Intern
July 2021 - Aug 2021   Wuhan, China

- Built out the data of and reporting infrastructure from the ground up using Python and SQL to provide real-time insights into the main guild lines like network throughput, dealy and resource consumption.
- Performed a Chi-squared test and built a logistic regression model to help the SEO team decide which guild lines to target.

Deloitte - Consumer Insights Intern
March 2020 - June 2020   Chengdu, China

- Developed root cause reports to address problems with customer conversions by analyzing competitors and consumers of different ends for food seasoning industry, revealing insights that boosted conversions.
- Provided solutions from the aspects of the supply chain, products, marketing, and big data technology for Kraft Heinz.

PROJECTS

Analysis on Stock Price of Tourism Industry
Jan 2022 - May 2022

- Created storytelling through data visualization using Tableau and Plotly;
- Discovered the behavior of stock price data of three travel agencies over time by doing the decomposing to identify the time series components and using the Augmented Dickey-Fuller Test to check the stationary after the auto coorelation;
- Forecasting the volatility of future returns by building ARMA/ARIMA/SARIMA models, financial time series models (ARCH/GARCH) and nueral network models (RNN/GRU/LSTM).

Analysis on Bike-Sharing System in Chicago
Aug 2021 - Dec 2021

- Discovered the distribution of station and usage duration of sharing bike system in Chicago with the probabilities obtained from large samples.
- Figured out the relationship between rideable type, membership, and usage time by building statistical models of Chi-Square test, T-test, bootstrap, linear regression and Naive Bayes.

Analysis on Diabetes data
Dec 2019 - Mar 2020

- Evaluated the influence of diabetes and public's focus on diabetes by gathering datasets and text data from primary scources (Twitter API and Clinical Trial API) and secondary scource (Kaggle) and doing data visualization using R and Python.
- Processed data mining with ARM Network, decision trees/Random Forest, Naive Bayes and SVM models.

EDUCATION

Georgetown University - Master of Science, Data Science and Analytics
Aug 2021 - current, GPA: 3.94   Washington, DC

University of Nottingham - Bachelor of Science, Chemistry
2017 - 2021, GPA: 3.7   United Kingdom

SKILLS

- Tools and programming (R, Python, HTML/CSS, SQL, Tableau, AWS, Microsoft Excel, Matlab, Javascript)
- Technical data skills (algorithms, data analysis, wrangling, modeling, statistics, visualization, machine learning models, data mining, debugging, hypothesis testing, A/B testing & experimentation, regression)
- Machine Learning and Deep Learning (Clustering, Association Rule Mining, Decision Trees, Random Forest, Naive Bayes, SVM, Linear Regression, Logistics Regression, Tensorflow, OpenCV, RNN, GRU, LSTM)
- Soft skills (passion to learn, solve problems, innovative, communications, writing, interpersonal)