Edwin Tse

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Currently taking a gap from my studies as I have finshed my Data Science major, and I will graduate by taking the last quarter in Spring 2024. Currently hold valid Canada Open Work Permit and with valid pathway for Permanent Residency.

Skills

Java, Python, JavaScript, AWS, SQL, R, GPT-3, PyTorch, NumPy, Pandas, Dask, Spark, Snowflake, Jupyter Notebook, Tableau, d3, Artificial Intelligence, Neural Networks, Machine Learning, HTML, Docker, Github and fluency in Mandarin and Cantonese

Education

University of California, San Diego   **Spring 2024**
Bachelor of Science, Double Major in Data Science and Business Economics, Minor in Urban Studies and Planning
GPA: 3.5
Foothill College
Associate in science for Transfer, Business Administration for Transfer with High-Honors   **Spring 2020**

Projects and Activities

Airfare Prediction Model and Price Discrimination Investigation Project (https://ptse8204.github.io/flightpricebias/)
Project Lead   **Dec 2022 – Current**
- Discovered that trends that shows price discrimination occur.
- Achieved 90% pre-liminary model accuracy on predicting airfare price sensitivity.

Crosswork.us   **Sept 2022 – Dec 2022**
Venture Capital Intern
- Automated the organization's customer acquisition process, allowing the firm to reach out 2x more potential customers by using Python and Pandas, and writing SQL queries to perform data mining.
- Sourced over 20 suitable venture capital deals, presented to firm's partners, and successfully completed 3 deals
- Conducted in-depth market research on emerging technologies, markets, and trends to collate qualitative as well as quantitative data; presented the report to the team in internal weekly meetings and recommended potential investment opportunities.

Zego (a Global Payments Company)   **June 2022 – Aug 2022**
Business Analyst Intern
- Applied machine learning to optimize the Mobile Doorman product, increasing user retention by 4.7% and improving customer satisfaction by 50%.
- Produced weekly and monthly reports with key metrics (leads and appointments generated, customer satisfaction, etc.) to clients from data queried from cloud-based Snowflake server.
- Created data models to predict residents' usage of the product and persuade client's feature adoption by assessing the product's value proposition through a cost-benefit analysis and comparing it to the competitors; Resulted in a 10% increase in the client's feature adoption rate.
- Wrote a 10 page of whitepaper on the findings of the research and the data models used and presented to the company's executive board

Course and Professor Evaluation Database (https://ptse8204.github.io/craveforcapes/)
Various Personal Projects   **Jan 2022 – Current**
- Scrapped the data from the web using Selenium, forming a 300 MB database after extensive data cleaning.
- Used agile data mining method to analyze student performance on their respective majors and compared the difference pre-pandemic and post-pandemic, which resulted in an accurate analysis presented in a report produced by R-markdown.
- Ran a total of 6 statistical tests, utilizing the R programming language, to test different hypotheses to analyze how the pandemic affected student's performance and offered suggestions on how to use the data to improve student performance.
- Concluded that student's GPAs does have statical difference during the pandemic, and there is indeed a "GPA inflation."

Visualization on Hate Crimes in the US Using d3   **Jan 2022 – Mar 2022**
- Created a website to showcase hate crime trends with groupmates.
- Applied multiple d3 interactive features, such as tooltips, buttons, etc.

AT&T Case Competition   **Feb 2021 - Apr 2021**
Finalist
- Chosen as one of the 5 finalists in the competition.
- Identified the marketing and the bottleneck of the operational processes to increase AT&T's revenue by 5% over the next year by analyzing the company's dataset, creating visualizations, and making predictions using machine learning models.