**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/**](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/**](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.