Harry Chang

Email: harrychang.work@gmail.com Portfolio: harrychangjr.streamlit.app LinkedIn: linkedin.com/in/harrychangjr Github: github.com/harrychangjr Mobile: +65-8428-5869

EDUCATION

National University of Singapore

Singapore

Bachelor of Science - Data Science and Analytics

Aug 2020 - May 2024 (Expected)

Coursework: Convex Optimization, Data Science in Practice, Data Structures and Algorithms, Data Visualization, Database Technology and Management, Linear Algebra, Multivariable Calculus, Optimization for Large-Scale Data-Driven Inference, Probability,, Regression Analysis, Statistical Learning

SKILLS

• Languages: R, Python, SQL, Java, Stata, MATLAB

- Machine Learning: Scikit, NLTK, TensorFlow, Keras, JAX
- Cloud and Database Systems: MySQL, PostgreSQL, SQLite, BigQuery, GCP, AWS, Git, Docker
- Data Visualization: Numpy, Pandas, Matplotlib, Seaborn, ggplot2, Folium, Tableau, Power BI, Domo, Gephi
- Design and Front-End: Figma, Canva, Streamlit, HTML, CSS

EXPERIENCE

Sephora Singapore

Product Data Analyst Intern

Jun 2023 - Dec 2023 (Expected)

- o Database Queries: Built, documented and hosted SQL queries and processes to enable reproducible and effective pipelines, analysis and dashboards using BigQuery
- o Data Visualization: Utilised Domo to create dataflows and visualizations that provide quick insights into product health and performance of e-commerce features (web and mobile)
- A/B Testing: Implemented A/B testing to measure potency of new e-commerce features before reporting results

SCOR

Actuarial Intern May 2022 - Aug 2022

- o Actuarial Analysis: Performed actuarial analysis of reinsurance treaties in various APAC markets, including entry of client portfolio and loss data into xAct (treaty pricing system)
- o Insurance Market Databases: Regularly updated and analysed risk profiles and claims databases for insurance markets in Pakistan, Thailand and Vietnam
- o Credit Product Pricing: Trained machine learning models (logistic regression, random forest) to predict insurance claims, with an average accuracy of 80% for each model

Quest

Feb 2022 - May 2022

- Data Analytics Intern
 - o Product Analytics: Conducted cohort analysis to optimise user acquisition and retention rates
 - o Growth Analytics: Collected, analysed and interpreted trends within user data to improve company's growth and marketing strategies
 - o Dashboard Processes: Built visualizations and dashboards using RStudio and Tableau to report monthly key metrics of company's mobile application

Projects

- Enhanced TikTok Analytics Dashboard: (Work in progress) Open-source dashboard for TikTok users to analyse performance (views, shares, likes & comments) of videos using hashtag analysis. Tech: Python, Streamlit, NLTK, Gensim, Plotly, Matplotlib & Seaborn. (May '23)
- Optimising Article Quality with ChatGPT and Natural Language Processing: Evaluated performance of ChatGPT in improving original write-ups of science news articles using NLP methods. Tech: Python, Streamlit, NLTK, Textstat & Matplotlib. (May '23)
- Statistical Learning: Analysis on Video Game Sales: Utilised various regression methods (random forest, XGBoost) and linear mixed-effects model to investigate effects of predictors in predicting global sales. Tech: R (Apr '23)
- Statistical Learning: Nourish Your Body with Data: Built matrix-factorisation based recommendation system to suggest healthier alternatives for grocery shoppers with varying demographics Tech: R, Python, Streamlit (Apr '23)

Honors and Awards

- First Runner Up out of 117 team submissions at NUS LifeHack 2022 July, 2022
- First Runner Up at NUS Fintech Month Hackathon 2021 January, 2021

ACTIVITIES

Co-founder and Publicity Head, NUS Product Club Singapore Spearheaded logo design and crafted publicity materials to promote outreach of new club Apr 2023 - Apr 2024

Deputy Head of Finance, Google Developer Student Clubs NUS

Singapore

Compiled team budgets to ensure sufficient funding for workshops and hackathon

Sep 2021 - Apr 2022

Marketing Director, NUS Statistics and Data Science Society

Singapore

Secured \$19,000 worth of sponsorships for 850 students in Data Analytics Competition

May 2021 - Apr 2022