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EDUCATION

Georgetown University

· University of Toronto

Master of Science in Data Science and Analytics. cGPA: 4.0

The Australian National University

Master of Science in Statistics

Honors Bachelor of Science with Distinction (Maths, Statistics and Computer Science)

Aug. 2021 - May 2023 (Est.) Canberra, Australia Feb. 2017 - Dec. 2018 Toronto, Canada Sept. 2011 - June 2016

Washington D.C., United States

SKILLS

• Programming: SQL, Python, R, JavaScript, HTML, CSS, Java

- Machine Learning: tidyverse, tidymodels, caret, jupyter-notebook, scikit-learn, numpy, pandas
- Visualization: ggplot2, Shiny, d3.js, matplotlib, seaborn, plotly, leaflet, bokeh
- Data Science: A/B testing, ETL, pipeline (cleansing, wrangling, visualization, modeling, interpretation), scraping, feature engineering, NLP, cluster analysis, time series analysis, PCA, stochastic process, experimental design, hypothesis testing
- Big Data & Miscellaneous Technologies: AWS (EC2, EMR, S3, SageMaker), Azure, Databricks, Spark, Hadoop, MongoDB, Docker, Linux, Shell, Hugo, Figma

EXPERIENCE

International Finance Corporation (World Bank Group)

Washington, D.C. May 2022 - Present

Data Scientist Intern

- o Develop metrics (such as fairness, explainability, and adversarial robustness score) to evaluate the performance of MALENA (Machine Learning ESG Analyst)
- o Train and fine-tune transformer-based NLP and NLU models (including RoBERTa and DistilBERT) to enhance the robustness and stability of MALENA
- Collaborate with CEG and IFC stakeholders to understand their requirements and designed innovative dashboards for machine learning inference data visualization
- o Improve efficiency by cleaning up and scheduling batch jobs in the Databricks cluster, which provided periodic summary statistics for the dashboard

· Georgetown University

Washington, D.C.

Teaching Assistant / Bootcamp Manager

Aug. 2021 - Aug. 2022

- Served as a graduate teaching assistant for ANLY-503 (Advanced Data Visualization) and ANLY-560 (Time Series), providing weekly office hours and grading assignments for a group of over 30 students
- Facilitated course materials, managed the course Slack channel, and organized the course GitHub organization

 K2L Canberra Product Data Analyst Canberra, Australia

July 2019 - June 2021

- Utilized Python and SQL to track and analyze product data, resulting in a 15% increase in recommendation accuracy
- o Created data visualizations with MySQL and R for product key performance indicators (KPIs), reducing manual reporting time by 3 hours per week
- o Improved user experience (UX) measures by 20% through increased user feedback collection and frequent iteration based on customer needs
- Worked with the engineering team to launch an internal kanban tool to improve the work-from-home experience
- o Successfully launched 6 products (including websites, mobile apps, and web apps) for clients in 2 years, resulting in a 65% revenue increase

Canberra, Australia

Co-founder/Data Analyst Feb. 2019 - June 2019

- Successfully led a team of 12 in developing an online Q&A community, which merged the concepts of StackOverflow and TikTok. The community grew to 1,000 users in just 3 months
- Conducted market competition analysis using scraped data to inform the initial product planning process
- Analyzed business goals, schedules, and budgeting during the early stages of development and created strategies to align with these objectives
- Developed functional prototypes that improved communication efficiency by 30% for clients

PROJECTS

• K2L

- What Ingredients Are You Tasting In Authentic Japanese Flavors? A comprehensive interactive visualization project on Japanese cuisine with D3, plotly and leaflet. Website
- Basketball Analytics and Beyond A project on various basketball related topics, both on-court and off-court. Website
- No Pie Newsletter A newsletter curating the latest articles, packages, tools and podcasts about data visualization. Archive
- xG Visualization Pipeline An automation R script to parse and clean raw data from soccer games. Tweet, archive, repository
- tarantino An R package that generates color palettes inspired by Quentin Tarantino's movies for visualization. R-Weekly, repository
- @canberramapbot A Twitter bot utilizes Mapbox and Twitter APIs to post bird's-eye view over Canberra. Repository, Twitter
- sentRy A DevOps monitoring tool that sends Django error logs to subscribers' Telegram account. Reduced the total amount of notifications by 40% via aggregation and trimming redundant information. Blog, repository