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EDUCATION

Georgetown University

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

The Australian National University

Master of Science in Statistics

University of Toronto

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

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

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, natural language processing, 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.

Data Scientist

May 2022 - Present

- Develop and fine-tune transformer-based language models using state-of-the-art techniques, such as BERT or GPT-3
- Train the model on large and diverse historical text corpora from IFC, resulting in a robust and high-performing language model that can generate coherent and contextually appropriate text
- o Conduct extensive experimentation and hyperparameter tuning to optimize the model's performance on various language tasks, such as text classification, sentiment analysis, and question answering
- Evaluate the model's performance using both established and experimental benchmarks and demonstrate its effectiveness on several language tasks
- Integrate the model into a larger natural language processing (NLP) application, MALENA (Machine Learning ESG Analyst), demonstrating its usefulness for real-world language processing tasks
- Conduct research to improve the model's fairness, explainability, or adversarial robustness, ensuring that the model is transparent and fair in its decision-making process
- Collaborate with stakeholders to understand their requirements and designed interactive dashboards for better insight communication

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

Canberra, Australia

July 2019 - June 2021

Product Data Analyst

- Utilized Python and SQL to track and analyze product data, resulting in a 15% increase in recommendation accuracy
- 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

• K2L Co-founder/Data Analyst

Canberra, Australia

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
- Developed functional prototypes that improved communication efficiency by 30% for clients

PROJECTS

- 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-eve view over Canberra. Repository, Twitter
- sentRy A DevOps monitoring tool that sends Diango error logs to subscribers' Telegram account. Reduced the total amount of notifications by 40% via aggregation and trimming redundant information. Blog, repository