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About Me

Data science graduate proficient in Python, SQL and machine learning, with hands-on experience building predictive models and interactive dashboards. I thrive on solving complex problems – from cleaning messy datasets to uncovering insights – and excel at communicating findings in clear, relatable terms. A collaborative team player who is continually learning new tools, I am driven by a passion for leveraging data to build innovative solutions that serve communities and drive positive change in the real world.

Skills

- **Machine Learning:** Supervised/Unsupervised learning, AWS SageMaker
- **Deep Learning/AI:** PyTorch, NLP, Large Language Models (LLMs), Prompt Engineering, Fine-tuning (LoRA/QLoRA), AWS Bedrock
- **Programming:** Python, SQL, R
- **Data Engineering:** Apache Spark, Apache Kafka, Snowflake, AWS Glue
- **Data Visualization:** Power BI, Tableau, R Shiny, Matplotlib

Education

Monash University – Master of Science in Data Science, *Awarded with Distinction*   Aug 2023 – Jul 2025
- GPA: 3.6/4; Dean's List Semester 1, 2024
- Related Courses: Machine Learning, Statistical Data Modeling, Data Wrangling, Data Visualisation
- Research: Using Large Language Models to classify illicit content on online marketplaces (in progress for publishing)

Colorado State University – Bachelor of Arts in Economics   Aug 2017 – Dec 2018
- GPA: 3.8/4; Dean's List Semester 1, 2018

Foreign Trade University – Major: International Economics   Aug 2014 – Jul 2017

Working Experience

EY Sweeney – Market Researcher   Sep 2024 – Present
- Conducted face-to-face interviews and surveys across Melbourne, collecting high-quality primary data related to transportation and public behavior
- Ensured adherence to data integrity and accuracy in a fast-paced environment; managed data using market research tools to prepare clean datasets for analysis
- Collaborated with cross-functional teams to meet data collection targets

Shopee – Project Management Office, Senior Associate   Jul 2021 – Jul 2023
- Applied qualitative research and quantitative analysis to understand and improve current business processes
- Used tools like SQL and Python to analyze data and generate insights to inform new initiatives and tackle business problems
- Developed KPIs for the team and subsequently reviewed / tracked these KPIs by building PowerBI dashboard
- Worked together with multiple stakeholders to roll out projects and manage the timeline of all projects
- **Achievements:** P&L initiative saved 45% of total team cost (> 500K USD) and increased profit by > 1M USD in 2 months; awarded A+ (top 5% of company) in 2022

DHL Supply Chain – Business Development, Management Trainee   Sep 2019 – Jun 2021
- Communicated with customers to have a deep understanding of their problems
- Analyzed customers' volume to find out the missing information and clarified confusing information

- Collaborated with related teams to customize solutions for customers' problems based on their inquiries and our data analysis
- **Achievements:** Won Nestlé distribution project (3M USD value); won Unilever warehouse project (1M USD value)

Projects

Illicit Content Detection with LLMs   2025
- Skills: NLP, LLMs (Llama, Gemma), PyTorch
- Designed an AI system to classify illicit marketplace content across 40 categories using a dark-web multilingual dataset
- Applied LLM fine-tuning (parameter-efficient methods) and benchmarked against classic ML baselines
- Achieved **90%** binary accuracy and **74%** multi-class accuracy; demonstrated strong text-classification capability

Fraud Detection with Big Data & Machine Learning   2024
- Skills: Apache Spark, Apache Kafka, Docker, Data Engineering, Big Data, Predictive Modeling
- Built scalable Spark pipelines to process **22M+** e-commerce transactions with advanced feature engineering
- Trained/tuned supervised classifiers for fraud detection; performed unsupervised clustering for customer segmentation
- Delivered a scalable framework that improved detection accuracy and produced actionable insights

Youth Offender Analysis Dashboard   2024
- Skills: Data Visualization, Geospatial, R Shiny
- Developed an interactive dashboard analyzing Australian youth crime trends (2013–2023) using government datasets
- Built geospatial heatmaps, time-series trends, and demographic views; correlated digital activity with youth offending
- Found a strong positive correlation ($r = 0.94$), informing policy-oriented insights

Predictive Modeling: Happiness & Mental Health (Kaggle)   2024
- Skills: Regression, Classification, Feature Engineering
- Built regression and multi-class classification models on well-being survey data; applied ensembling and optimization
- Ranked **1st/230** in regression (low RMSE) and **15th/225** in classification (F1)

Web Data Extraction & Visualization   2024
- Skills: Data Wrangling, Analytics, Visualization
- Automated web scraping and wrangling to convert unstructured online data into structured datasets
- Performed environmental analytics, social-media sentiment analysis, and predictive modeling; produced clear visuals and narratives

Certifications and Awards

- AWS Certified AWS Certified Machine Learning Engineer – Associate (2025)
- Google Analytics (2018)
- Colorado State University Scholarship for excellent academic performance (2018)

Activities

Elder Rights Advocacy – Volunteer Visitor   Jun 2024 – Present
- Weekly/fortnightly visits; engage in participant interests; maintain communication with program staff

FTU Study Abroad Club – Operations Department Member   Aug 2014 – Jul 2016
- Collaborated with team members to plan annual activity roadmap; set KPIs and timelines; built sponsor and club relationships