Halley Dao

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EDUCATION

Bachelor of Science, Computing and Software Systems   Jul, 2025
The University of Melbourne (Graduated with H2A/Distinction)

TECHNICAL SKILLS

- **Data Analysis & Reporting**: Tableau, Power BI, Excel, R (dplyr, AER), Python (NumPy, Pandas, Matplotlib, NLTK, Beautiful Soup, Scikit-learn, TensorFlow)
- **Database & Query Languages**: SQL (MySQL, PostgreSQL), MongoDB, Data Modelling
- **Statistical Methods**: A/B testing, causal inference, regression analysis, exploratory data analysis
- **Collaboration Tools:** Jira, Confluence, GitHub

RELEVANT EXPERIENCES

Data Engineer Intern   Jul, 2024 - Oct, 2024
Walter and Eliza Hall Institute of Medical Research, Melbourne
- Developed Excel dashboards to compare pipeline performance, providing actionable insights to research teams and stakeholders
- Optimised query performance and scalability of a large-scale blood cell gene expression database, reducing data retrieval time by 20% and improving downstream analysis efficiency

Data Analyst Intern   Jul, 2023 - Jul, 2023
Viettel Digital, Hanoi, Vietnam
- Conducted data cleaning and standardisation customer records using Excel, resolving missing values and inconsistent labels to improve data quality
- Delivered Tableau reports to harness analytics and insights for tracking customer behavior, transaction patterns, and product usage trends

RELEVANT PROJECTS

Employee Turnover and Attrition Analysis
- Identified employee groups with up to 2 times higher attrition risk by analysing patterns across demographics, job satisfaction, work-life balance, and overtime
- Developed a Power BI dashboard that enabled HR leaders to compare attrition trends between departments, job levels, and employee segments
- Provided actionable insights on improving employee engagement and retention through better recognition, balanced workloads, and enhanced work-life support

Credit Card Fraud Detection
- Constructed Logistic Regression and Multi-layer Perceptron models using statsmodels and TensorFlow, applying advanced feature engineering with Pandas to improve classification accuracy
- Attained an AUC score of 0.81 for the Neural Network model and optimised accuracy through model evaluation

Global COVID-19 Analysis (2020–2021)
- Conducted exploratory data analysis on global COVID-19 datasets using SQL, identifying key patterns in confirmed cases, deaths, and recoveries across 2020-2021
- Designed Tableau dashboards to visualize hotspots, mortality, and recovery trends for non-technical users

VOLUNTEER ACTIVITIES

Industry Officer   Dec, 2023 - Sep, 2024
Data Science Students Society, Melbourne
- Coordinated guest speaker events, boosting industry engagement by 40%
- Collected and analysed student survey data to guide event planning, increasing attendance by 25%

Student Consultant   Jan, 2023 - Feb, 2023
Sportandi, Melbourne
- Led a team of 8 in conducting SWOT analysis and market research via surveys and interviews
- Presented findings through a consulting report and client presentation, delivering actionable recommendations