BRIAN ONG

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SUMMARY

I am an ambitious Data Science student with a strong critical mindset and a passion for visual storytelling. My academic background in Computer Science and Statistics equips me with expertise in Python, R, and SQL for solving complex problems with large datasets. I specialize in delivering data-driven solutions that enhance business performance and strategy. With proficiency in Power BI and Tableau, I create impactful dashboards that provide insights with precision and efficiency. I am eager to apply my skills and continue gaining industry experience to drive meaningful contributions.

SKILLS

- Programming language: R, SQL, C++, Python (Pandas, Pytorch, Numpy, scikit learn, Keras, etc.).
- Data Visualization tools: Tableau, Power BI, Excel.
- Cloud and Data Analytic Platform: AWS, Azure Microsoft, Snowflake, Microsoft Fabric, Alteryx.
- Statistical and Testing method in Statistic: A/B test, Hypothesis test.
- Operating system, Frameworks: Git, Github, MacOS, Window and Microsoft Office.
- Machine Learning and Predictive Model: Linear Regression, k-nn model, CNN model, MLP model, etc.
- Soft Skills: Teamwork, Interpersonal skills, Time Management, Problem-solving, Analytical thinking, Presentation, Work attention to detail and accuracy.

WORK EXPERIENCE

PTE Master (Sydney, Australia)

Data Analyst Intern (November, 2023 - February, 2024)

- Acquiring and ingesting data from AWS S3 to prepare for efficient Power BI analytics.
- Delivered data accuracy by applying Python and Google Sheet to extract, transform and store data to develop business-critical Power BI dashboards.
- Collaborating with cross-functional teams and other stakeholders such as product managers to answer the business requirement , for example, using SQL and Power BI reports to exceed stakeholder expectations.
- Assisted supervisor to Implement automated triggers for Power BI, reducing manual and improve the development of production and data-driven decision-making process.

QUALIFICATIONS

Bachelor of Computer Science (AI and Big Data) (June, 2023 - present)

- University of Wollongong, *WAM: 8.5*
- Achievement: University Excellence Scholarship 30%.

Diploma of Information Technology (October, 2022 - June, 2023)

- College University of Wollongong, *WAM: 8.7*
- Achievement: UOW College scholarship 50%.

Certificates

- Advanced Data Analytics (Google, Coursera September, 2024).
- Data Science & Actuarial Job Simulation (Standard Bank, Forage September, 2024).

- Power BI Job Simulation (PwC, Forage August, 2024).

PERSONAL PROJECTS

Data Analytics and Prediction Project - NSW house price (Python)

- Conducted in-depth exploratory data analysis (EDA) on the NSW house price dataset from Kaggle to uncover key factors influencing house prices across suburbs in New South Wales.
- Analyzed trends and how variables like distance from central business districts (CBDs), local amenities, and suburb income levels affected homebuyer decisions and property values.
- Developed machine learning models, including Gradient Boosting, Random Forest, and Decision Tree, to predict real estate price trends.

Payslip Dashboard (MySQL - Tableau)

- Cleaned and modified the dataset for date-time and numeric values to ensure data accuracy.
- Utilized SQL to extract and verify employee payments during leave periods to correct scheduled payment.
- Developed an interactive payroll dashboard in Tableau with filters for both employers and employees to view salary details by ID and track over/under payments across time for HR management.

PwC Call Center & Customer Churn Analytics (Power BI)

- Conducted an in-depth analysis of call center operations and customer interactions.
- Built an interactive Power BI dashboard to identify key areas for service improvement.
- Provided actionable insights that helped streamline customer experience and enhance operational efficiency.

Queensland Road Incidents Analytics (Tableau)

- Analyzed factors contributing to road incidents across Queensland to identify critical areas for safety improvements.
- Assessed year-over-year trends by suburb and visualized the data using multi-type charts in Tableau.
- Delivered insights into road conditions and accident trends, informing policy and infrastructure changes for a safer future.

Global Electronic Retailer Business Analytics (Business Research - MySQL - Power BI)

- Conducted a cohort analysis to assess customer retention and comeback rates.
- Developed Power BI dashboards to track revenue, profit, and sales trends over time.
- Provided a detailed product analysis, including color and category trends, to guide stakeholders in product development decisions.
- Suggested actionable solutions for optimizing store space utilization to reduce rental costs in underperforming locations.

Flood Factor Analytics and Prediction Project (Python)

- Conducted EDA on a flood prediction dataset, applying statistical methods such as hypothesis testing and outlier detection to determine key variables.
- Implemented an XGBoost model to predict flood risk, achieving an 85% MSE accuracy.
- Leveraged statistical techniques to enhance the understanding of data features and their relationships to flood risk.

ML project by variety models (Flower images and Emails Classification - Python)

- Developed k-NN and other classification models for image classification (flower datasets) and document classification (20 Newsgroups Dataset).
- Applied advanced machine learning techniques, including feature extraction and preprocessing, to optimize model performance.

- Compared different models (Multinomial Naïve Bayes, Complement Naïve Bayes) and achieved high classification accuracy across tasks.

REFEREES

Available upon request