

RYAN NG JEK HIAN

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EDUCATION

National University of Singapore

Jan 2023 - Present

Bachelor of Science (Hons)

- Major in Data Science and Analytics and Minor in Quantitative Finance
- Grade Point Average: 4.69/5.00 (Honours with Highest Distinction)
- Relevant courses: Programming Methodology, Data Science, Advanced Calculus, Linear Algebra, Probability, Statistics, Data Visualisation and Artificial Intelligence.

TECHNICAL SKILLS

- **Programming Languages:** Python, R and SQL
- **Data Visualisation:** Tableau, Matplotlib (Python), ggplot2 (R)
- **Machine Learning and Data Mining:** Supervised (Linear & Logistic Regression, K-Nearest Neighbour, Decision Trees, Naive Bayes), Unsupervised (Clustering)
- **Statistical Tool:** MATLAB
- **Cloud Platforms & Technologies:** AWS SageMaker, Git

WORK EXPERIENCE

Data Science Intern, SkillsFuture SG

May 2024 – Aug 2024

- **Fraud Analytics Models Maintenance:** Conducted comprehensive Model Health Checks utilising advanced statistical tools to evaluate model performance, detect data and concept drift.
- **Cloud Migration Testing:** Executed User Acceptance Testing (UAT) and statistical analysis on 3 Fraud Analytics Models during cloud migration, leading to the successful deployment of models into production environments.
- **Data Lineage Analysis:** Performed data lineage analysis for over 60 features and mapped them to risk indicators to aid feature engineering during model overhaul.
- **Dashboard Creation and Maintenance:** Developed and maintained interactive dashboards using Tableau to visualise and monitor corporate KPIs, providing critical insights to C-suite executives for strategic decision-making.

Data Science Teaching Assistant, National University of Singapore

Jan 2024 – May 2024

- Collaborated closely with a teaching partner to support and coach in key concepts such as Data Cleaning, Data Visualisation, and Supervised and Unsupervised Learning Models.

Military Training Instructor, Singapore Armed Forces

Nov 2022 – Apr 2023

- Implemented training programs and was responsible for designing and delivering high-quality instructional programs and training sessions for over 100 cadets.
- Leveraged Microsoft Excel to analyse training data on cadets, contributing to the enhancement of training programs.

Operation and Intelligence Officer, Singapore Armed Forces

Jan 2021 – Nov 2022

- Synchronised different assets and provided logistical support and operations management for the Battalion's operation.
- Conferred the NSF of the Year Award (2023) for contributions to the Nation.
- Received a letter of Commendation (2023) by the Chief Signal Officer.
- Awarded with Signal Brigade Commander Coin (2023).

- Invited to attend Presidential Garden Reception (2023) to recognise over 100 military servicemen's efforts and contribution to safeguarding the Nation's defence.

PROJECTS/ COMPETITIONS

National University of Singapore Datathon Competition 2024 Feb 2024

- Collaborated in a team of 5 to develop a robust predictive model to forecast future sales figures, leveraging historical sales data to identify trends and causative factors.
- Aimed at optimising inventory management and resource allocation for strategic decision-making.

Statistical Report on Diabetic Status Nov 2023

- Generated a statistical report on the optimal model for accurately identifying diabetic status.
- Leveraged various Supervised Learning Models in R to analyse and predict diabetic status on a given dataset.

National University of Singapore Statistics and Data Science Society's Competition Sept 2023

- Employed data visualisation tools to effectively communicate trends, translating complex insights into a visually engaging infographic.
- Collaborated in a pair to clean and analyse a dataset focused on behavioural patterns and their impact on sleep.

CERTIFICATIONS

AWS Certified Cloud Practitioner June 2024

DataCamp Analysing Data in Tableau May 2024

DataCamp Creating Dashboards in Tableau May 2024

DataCamp Exploratory Data Analysis in R May 2024

AWARDS AND ACHIEVEMENTS

- CDC-CC Education Merit Award (2020), awarded for good academic results and conduct.
- Commendation Award (2020), awarded for all-rounder and excellent performance in Co-Curriculum Activities (CCA) and academic results.
- Education Save Academic Achievement Award (2019), awarded for good academic performance and conduct.
- Educational Good Progress Award (2018).
- Honourable Mention, Merit Award for Singapore Junior Physics Olympiad (2017).
- Certificate of Credit for Australian Mathematics Competition (2015).

ADDITIONAL INFORMATION

- Languages: English, Mandarin
- Interests: Photography and Floorball