BERNARDINO REALINO ARYO LINTANG

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EDUCATION

National University of Singapore (NUS) **Aug 2023 - Present**
Bachelor of Science (Hons)

- Major in Data Science & Analytics
- Coursework: Data Structures & Algorithms (Java), Programming Methodology (Python), Essential Data Analytics Tools: Data Visualisation (R), Data Science in Practice (Docker, Git, Flask, SQL)

WORK EXPERIENCE

Operations (Data Science) Intern **May 2025 – Aug 2025**
Superbank – Jakarta, Indonesia

- Engineered **200+ fraud detection features** in Python and Snowflake SQL, enhancing the anomaly detection model's ability to flag suspicious account behaviour.
- Designed and standardised feature documentation templates in Excel, cataloguing 200+ features with definitions to ensure clarity, reproducibility, and audit readiness.
- Optimised SQL queries on datasets exceeding 50M records by breaking complex scripts into modular components, improving processing efficiency by ~40%.
- Created snapshot views of payment data in Snowflake, enabling more efficient transactional analysis and model training and maintained data pipelines in Snowflake, enabling real-time visibility into anomalies such as mismatched devices, OS versions, and high-frequency transaction bursts.

PREVIOUS PROJECTS

NUS Datathon (Finalist) | Python, Machine Learning **Feb 2025**

- Developed a hybrid recommendation model using SVD with Collaborative Filtering and Content-Based Filtering (cosine similarity) to optimize financial advisor-client matching for the NUS Datathon 2024, ranking Top 5 out of 75 teams.
- Engineered key features like compatibility score and policy success rate, and optimized performance through hyperparameter tuning, achieving 98.59% Precision@5 and 100% Recall@5.

DNA-Binding Protein Classification Project | Python, Machine Learning **Aug 2024 – Nov 2024**

- Designed and implemented machine learning models (Logistic Regression, Naive Bayes, Random Forest, CNN) to classify DNA-binding proteins using sequence data, applying advanced feature extraction techniques and class-weighted loss functions to address class imbalance.
- Optimized model performance through hyperparameter tuning and evaluated results using metrics such as MCC, accuracy, and sensitivity, achieving enhanced classification accuracy and interpretability

Taylor Swift Album Reception Analysis Project | R, Data Visualisation **Aug 2024 – Nov 2024**

- Analyzed the impact of song characteristics (e.g., acousticness, valence, collaborations) on album reception by integrating and cleaning datasets of audio features and reviews, while excluding outliers and special albums for focused analysis.
- Visualized trends through bubble charts, heatmaps, and bar graphs to examine emotional qualities, acoustic richness, and external factors influencing Metacritic scores and user ratings.

Machine Learning Project and Statistical Report | R, Machine Learning **Jan 2024 – Apr 2024**

- Conducted a comprehensive analysis to identify the machine learning models for predicting diabetes status using a dataset of 100,000 survey responses.
- Utilized R to explore data, build classifiers (Logistic Regression, Decision Tree, Naïve Bayes, KNN), and evaluate performance using metrics like AUC and ROC curves.

Data Analysis Project: SDS Mini Competition (1980s Hits) | Python, Data Visualisation **Jan 2024**

- Analyzed 1980s music trends to identify relationships between song characteristics (e.g., danceability, energy, tempo) and popularity, highlighting 1983 as the peak year for danceability and popularity, and visualized key patterns influencing audience reception.

LANGUAGE PROFICIENCY

- Programming Skills: Python, Java, R, SQL
- Data Visualisation Skills: Tableau, Power BI
- Microsoft Office Tools: Excel, Powerpoint, Word
- Data Analysis using Python (pandas,numpy,scikit-learn,matplotlib) and R (ggplot2, tidyverse)
- Creative Skills: Capcut, VSCO, Lightroom, Figma, Social Media
- Spoken Languages: English, Bahasa Indonesia, Bahasa Melayu

ACHIEVEMENTS

- Principal's Honours Roll in 2019 & 2020
- Outstanding Academic Performance at the 2020 JC2 Preliminary Examination, 2019 JC1 Promotional Examination and the 2019 JC1 Mid-Year Examination
- Top in Cohort for GCE 'O' Level Additional Mathematics and Combined Science (Physics/ Chemistry) in 2018
- Top in Level and Stream in 2017
- Top in Cohort for Secondary 3 Level Elementary Mathematics and Combined Science (Physics/Chemistry) in 2017
- CCA Service Award and Star Student Award 2018

LEADERSHIP EXPERIENCE

Developer Group @ NUS Computing, Head of Branding and Marketing **July 2025 – Present**

- Lead discussions within the B&M department and delegate tasks to associates for the various internal club events
- Manage and oversee the execution of tasks assigned to associates

NUS Student's Science Club, Welfare Subcommittee, Marketing Head **Sept 2024 – Aug 2025**

- Led outreach efforts by creating and presenting sponsorship pitches, securing valuable partnerships, and coordinating the collection and timely delivery of sponsored items to meet marketing objectives.
- Co-managed a team of 7 executives alongside another marketing head, fostering collaboration, ensuring the successful execution of sponsorship and marketing goals, and mentoring the team through tutorials on sponsor communication.
- Streamlined the email process by implementing a mail merge, reducing email dispatch time by 50% and improving efficiency in sponsor communication.

NUS Student's Science Club, Science Orientation Week, Orientation House Leader **Jun 2024 – July 2024**

NUS Student's Science Club, SCAMP, Orientation Group Leader **May 2024 – Jun 2024**

- Co-led a group of 18 freshmen in SCAMP with a team of 4 seniors, fostering a supportive environment while demonstrating leadership and adaptability to overcome challenges and ensure participants' safety and enjoyment.

Catholic Junior College, Vice President of Film, Sound & Video CCA **Feb 2019 – Nov 2020**

- Managed college events and projects, overseeing equipment maintenance, procurement, and logistics, while mentoring team members in photography and developing leadership, decision-making, and organizational skills under time and resource constraints.