

Yehezkiel Efraim Darmadi

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PROFESSIONAL OVERVIEW

I am a Data Scientist pursuing a Master's at Monash University, specialising in optimisation, AI, and machine learning. My research focuses on leveraging advanced techniques to analyse and disrupt complex network structures. With over a year of experience in data analysis, I excel in using SQL, R, and Python to extract actionable insights from large datasets, driving data-driven solutions that improve business efficiency and competitiveness.

WORK EXPERIENCE

Master's Student Researcher and Research Assistant (AiLECS Lab) August 2024

Monash University, Melbourne

- Conducting research on network analysis, utilising Genetic Algorithms and various Social Network Analysis (SNA) methodologies.

Product Developer Actuary (Supervisor) September 2021 – October 2022

Yayasan Agri Sustineri Indonesia/ Sygenta Foundation, Jakarta Selatan

- Drove the development of index insurance products, accelerating time-to-market by 50%, and enhancing client offerings in agricultural sectors.
- Developed two innovative index insurance models leveraging advanced mathematical loss techniques, including historical data analysis.
- Designed and executed data-driven strategies that improved profitability forecasts by over 10% through effective data manipulation and performance metric analysis.
- Used Python and R to extract, cleanse, manipulate, and visually present intricate satellite weather datasets encompassing CHIRPS, GSMaP, and ERA5, accelerating data processing by a significant 50%.
- Developed robust data collection and cleansing processes, enhancing data accessibility and quality.
- Engaged with global stakeholders to foster partnerships and deliver comprehensive data-driven solutions, ensuring client satisfaction and compliance.
- Executed correlation analysis to identify critical crop yield factors, enhancing product design and relevance to farmers.
- Engineered a meticulously timed roadmap for insurance contract registration and judicious claim monitoring, achieving a 90% on-time execution rate.
- Encompassed intricate mathematical paradigms and ingenious scripts through meticulous LaTeX documentation, ensuring clarity and accessibility that contributed to a 90% reduction in knowledge gaps.

Business Analyst May 2021 – August 2021

LAZADA, Jakarta Selatan

- Managed and enhanced relationships with 30 high-value sellers monthly through strategic data analysis, achieving a 56% conversion rate during the inaugural mega campaign and securing a place among the top 5 newcomers distinguished by exceptional join rates.
- Utilised SQL and Python to manage large datasets, performing complex analyses that informed data-driven decision-making.

- Collaborated closely with cross-functional teams to translate business needs into analytical frameworks, contributing to successful marketing campaigns.

EDUCATION

Master of Data Science (MS) in Computer Science (WAM: 84, GPA: 3.75), July 2023 - July 2025
Monash University Australia

Bachelor of Science in Actuarial Studies, CGPA: 3.54 (First-Class honour) Sept 2017 – Dec 2020
Asia Pacific University of Technology and Innovation

RESEARCH PUBLICATION

Final year project Asia Pacific University:

Comparison of Resampling Data and Without Resampling Data in Predicting the Default Rate Using Logistic Regression: A Study on Peer-to-Peer (P2P) Lending in the US (2017)

SKILLS

Technical skills: Advanced proficiency in SQL, R, Python; experienced with Tableau, Metabase and data visualisation tools, Big Data and Kafka.

Analytical skills: Strong in statistical modelling, hypothesis testing, and A/B testing.

Soft skills: Effective communication, critical thinking, problem-solving, adaptability, and teamwork.

Languages: Proficient in English; Native in Bahasa Indonesia

Certifications & Training:

- CT2 (Finance and Financial Reporting), IFOA
- CT3 (Probability and Mathematical Statistics), IFOA
- CT7 (Business Economics) from IFOA
- Alteryx Designer Core certification
- AWS Cloud Practitioner
- NLP with Probabilistic Models and NLP with Classification and Vector Models (DeepLearning.AI)