Harry Hariyanto

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Research Interests: Spatial Intelligence | Agentic Workflows | Robust ML Systems

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PROFESSIONAL PROFILE

Australia Awards Scholar and **Engineering Manager with 7+ years of experience** leading data teams at Shopee Indonesia. Currently pursuing a Master of Data Science at USyd specializing in Machine Learning. Uniquely positioned to bridge the gap between research and large-scale industrial deployment. Published IEEE First Author (27 citations) seeking to advance **Spatial Intelligence** and **Robust AI Agents**.

EDUCATION

Master of Data Science (Machine Learning) *The University of Sydney | Sem 2 2025 – Present*

- **WAM:** 83.5
- **Core High Distinctions:** (COMP5318) Machine Learning & Data Mining (**86**), (COMP5048) Visual Analytics (**85**).
- **Awards:** Australia Awards Scholar (Prestigious full scholarship), Vice-Chancellor's International Scholarship (Offered).

Bachelor of Informatics (Computer Science) *Institut Teknologi Sepuluh Nopember (ITS), Indonesia | 2013 – 2017*

- **GPA: 3.79 / 4.00 (Cum Laude)**
- **Key Grades:** Computer Vision (A), Digital Image Processing (A), Computational Intelligence (A).

RESEARCH & ACADEMIC PROJECTS

Publication: Non-invasive Detection of Multilevel Diabetes (IEEE) | *First Author, 2017*

- Proposed and engineered a novel signal processing pipeline using Wavelet Transforms for sensor data analysis.
- **Impact:** Garnered **27 citations** to date, validating long-term relevance in the field.

PROFESSIONAL EXPERIENCE

Data Engineer (Part-Time) | *MailPost Australia | 2025 – Present*

- Developing intelligent workflows using n8n and LLMs (Google Gemma) to automate data processing.

Assistant Manager - Data Engineering | *Shopee Indonesia | 2020 – 2025*

- **ML Deployment:** Led the engineering of end-to-end pipelines for OCR (Computer Vision), Fraud Detection, and Logistics optimization.
- **Scale & Reliability:** Architected data systems handling petabytes of data, reducing server costs by ~50% through algorithmic optimization.
- **Leadership:** Grew team from 4 to 15+ engineers; established TDD and monitoring practices to ensure production robustness.

Data Engineer | *Gojek Indonesia | 2019 – 2020*

- Built unified data layers (Single Source of Truth) across 4 countries, integrating complex API workflows for BI analytics.

Data Engineer | *KMK-Online (Vidio.com) | 2017 – 2019*

- Built and deployed a text classification model reducing spam by 89%.
- Optimized recommendation algorithms to boost video play rates.

TECHNICAL SKILLS

- **Core Skills:** Agile Methodologies, Experimental Design, Technical Writing, Data Visualization, Signal Processing.
- **Data Engineering:** GCP, Apache Spark, Airflow, Kafka, SQL, N8N (Workflow Automation).
- **AI & ML:** Python (Scikit-learn, Pandas, Tensorflow, MLFlow), Computer Vision (Basic), LLMs (Gemma/Ollama).