

Darryl Rayhananta Adenan

LLM Evaluation & Data Quality

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SUMMARY

Information Systems and Technology student at Institut Teknologi Bandung (GPA 3.53/4.00; expected August 2027) with hands-on experience in AI/LLM workflows, data validation, and enterprise software. Built and tested Bahasa Indonesia RAG systems and worked with operational data in cross-functional environments. Interested in LLM evaluation, AI quality, and improving AI-powered user experiences.

EDUCATION

Institut Teknologi Bandung - B.Eng. Information Systems and Technology

Aug 2023 - Aug 2027

GPA: 3.53/4.00 | Relevant coursework: Artificial Intelligence, Data Mining, Database Systems, Software Engineering

Data Science Course - GCI Global 2025

Sep 2025 - Dec 2025

Completed intensive coursework in data science methodologies and practical applications.

SKILLS & INTERESTS

LLM & AI: Prompt design and testing, RAG, OCR, NER, machine learning evaluation, output parsing, error handling

Data: Python, SQL, Excel, VBA, Pandas, Scikit-learn, Jupyter, data validation, ETL, data labeling, reporting, and visualization

Technologies: MySQL, DBeaver, Snowflake, SAP MM, REST APIs, Git/GitHub, Docker, PHP, JavaScript, Microsoft Office

Languages: Bahasa Indonesia (Native), English (Professional Working Proficiency)

EXPERIENCE

Manufacture Digitalization Intern | PT Siemens Indonesia

Jun 2026 - Sep 2026

Collaborated with manufacturing, logistics, and warehouse stakeholders to digitize inventory, stocktaking, and shipping-cost workflows while improving data quality and operational consistency.

- Worked with SAP MM material and inventory data from LX02, MB52, and MMParm alongside Snowflake and MySQL to support enterprise logistics and warehouse applications.
- Developed a stocktaking workflow that checked SAP-recorded materials against physical warehouse presence, reconciled available quantities, and helped users investigate discrepancies.
- Built a Shipping Cost Tool using PHP, MySQL, Excel, and freight-rate ETL pipelines to automate air- and sea-shipping estimates.
- Translated pricing, import-duty, and dangerous-goods guidelines into consistent calculation logic, including specific treatment for batteries and other regulated goods.
- Integrated Excel VBA with backend services through REST APIs, validated improvements with cross-functional stakeholders, demonstrated solutions, and trained dozens of users per application.

PROJECTS

S.E.R.V.E - Offline AI Compliance & Regulatory Chatbot

Mar 2026 - May 2026

Python, Qwen2.5, RAG, FAISS, BM25, OCR, IndoBERT NER, PII filtering

- Collaborated with a team to build a fully offline inference pipeline for scanned document compliance checking and a Bahasa Indonesia regulatory chatbot, keeping sensitive input on the local device.
- Prepared six Indonesian regulations as 374 semantically chunked records and combined multilingual E5 embeddings, a FAISS IVF index, and BM25 retrieval in reproducible training and inference notebooks.
- Designed grounded prompts with strict JSON PASS/FAIL outputs and implemented output parsing, required-status validation, malformed or truncated-response handling, and latency and token-throughput tracking.

Data Mining Competition - ACTION 2025

Oct 2025 - Nov 2025

Python, YOLO11, Data Labeling, Machine Learning Evaluation

- Built a keyboard-based annotation tool to efficiently label unlabeled Indonesian food images across 15 predefined categories and automatically organize them into class-specific training folders.
- Prepared the labeled dataset for model training and evaluated model performance to identify accuracy issues and potential overfitting.

SORA - Smart Operational Risk Analysis

Feb 2025 - Jun 2026

Python, Machine Learning, Data Analytics, Predictive Modeling, Visualization

- Developed a data-driven operational risk workflow covering preprocessing, feature engineering, predictive modeling, analytics, and visualization.
- Integrated analytical outputs into a decision-support experience that helps users interpret operational risk patterns and derive actionable business insights.

Driver Drowsiness Detection System - Data Slayer 3.0

Nov 2025 - Dec 2025

Python, DINOv2, BiGRU, Machine Learning Evaluation

- Worked with a team to develop an end-to-end driver-drowsiness detection workflow using DINOv2 for visual feature extraction and a BiGRU classifier for sequential prediction.
- Evaluated the model using ROC-AUC, achieved a score of 0.8529, and was selected as a national finalist among university teams in Data Slayer 3.0.

AI Local Search Experiment - Bin Packing

Nov 2025 - Dec 2025

Python, Hill-Climbing, Simulated Annealing, Experimentation, Visualization

- Implemented four Hill-Climbing variants - Steepest-Ascent, Sideways Move, Random-Restart, and Stochastic - to solve a bin-packing optimization problem.
- Contributed to experiment design, data collection, search-history visualization, algorithm comparison, and the final technical report.

ACHIEVEMENTS

National Finalist - Machine Learning Competition, Data Slayer 3.0

Nov 2025 - Dec 2025

- Reached the national final with the Driver Drowsiness Detection System after achieving 0.8529 ROC-AUC with the DINOv2 and BiGRU model pipeline.