

Robert Gunanta Bukit

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Physics Graduate at Institut Pertanian Bogor who passionate in Data driven analytics, with 1+ years of cumulative experience across the data ecosystem, specializing in build data analytical solutions, AI/ML system, scalable ETL/ELT pipelines, and many more. Proven track record in credit risk modeling through internships at Home Credit Indonesia and ID/X Partners, delivering models with quantifiable business impact. Skilled in Python, SQL, Excel, and BI visualization tools with strong statistical foundation and ability to translate complex data into actionable insights.

EDUCATION

IPB University — Bogor, Indonesia (2022 - Present) — B.Sc. Physics

- Active in several committee, organization, and project experiences with GPA of 3.24 out of 4.00

Relevant coursework: Computational Physics (MATLAB and Python), Digital Electronics, Internet Based Instrumentation System, Advanced Mathematical Physics, Statistical Physics, and Quantum Physics.

WORK EXPERIENCE

Home Credit Indonesia

Jakarta, Indonesia

Data Scientist — Project Based Internship

Oct 2025 – Nov 2025

- Consolidated 8 large-scale datasets using star schema into a single analytical table; trained LightGBM model reducing simulated default rate by 4% (8.62% → 4.62%), supporting an estimated \$86.8M (14.67%) net revenue impact.
- Optimized model recall for high-risk clients; produced feature importance outputs to support business adoption and credit risk policy adjustment.

DBS Foundation Coding Camp

Jakarta, Indonesia

Machine Learning Engineer — Scholarship Awardee

Feb 2025 – Jul 2025

- Selected among 63,000+ applicants; completed intensive Machine Learning curriculum covering data preprocessing, EDA, Deep Learning, and NLP using Python (Pandas, NumPy, Scikit-learn).
- Built ML models across multiple domains: fraud detection (DBSCAN), customer segmentation (K-Means), and sentiment analysis (NLP); contributed to Coffeelytic capstone — an AI-powered sales platform for coffee SMEs.

ID/X Partners

Jakarta, Indonesia

Data Scientist — Project Based Internship

Jan 2025 – Feb 2025

- Developed several classification models for portfolio default risk prediction such as Random Forest, XGBoost, and Logistic Regression.
- Built a policy simulation framework across several lending policy scenarios that captured 99% of the maximum net portfolio value achievable in the tested range (\$202.7M of \$203.9M) while limiting default-rate growth to 1.19% at an 88.4% approval rate instead a 4x drop in marginal risk-return efficiency beyond that point.

CERTIFICATION

- Google AI Professional Certificate — Coursera (offered by Google)
Issued: Feb 2026
- Quantum Machine Learning — IBM
Issued: Feb 2026
- Microsoft Excel: Business Intelligence with Power Query & DAX — Udemy
Issued October 2025

PROJECTS

Customer Retention Enhancement through Predictive Analytics — AI Sales Analytics Platform

Python

- Developed and evaluated classification machine learning models to predict customer churn, enabling targeted retention strategies for at-risk clients.

Retail Analytics — Quantum Virtual Internship (Forage)

Python · Pandas · Matplotlib · Statistical Testing

- Analyzed 250K+ simulated transactions for customer segmentation and trial store evaluation; identified 15% sales uplift opportunity through quasi - experimental methodology.

Gemma 3 Local RAG Reasoning Agent

Agno · LangChain · ChromaDB · Streamlit

- Built a hybrid RAG system integrating Gemma 3, ChromaDB, and Gemini API via Agno framework for local PDF reasoning and web-grounded search.

Integrated AI Nuclear Facility — Program Kreatifitas Mahasiswa — Gagasan Futuristik Tertulis (PKM – GFT)

- Designed a conceptual "Integrated Artificial Intelligence Nuclear Facility" (IAINF) aimed at increasing radioisotope production efficiency by 50% and reducing costs by 30%.