

M. ILHAM RIGAN AGACHI

Flutter & AI/ML Engineer

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PROFESSIONAL SUMMARY

Results-oriented **Mobile Engineer & AI/ML Enthusiast** with a strong focus on building data-driven applications that bridge the gap between clean code and intelligent user experiences. Experienced in integrating **On-Device AI (TFLite)** into production-ready Flutter applications. Currently developing a specialized physiotherapy system using **MoveNet Pose Estimation** and **Gamification**. Certified **Associate Data Scientist (BNSP)** with a proven track record in predictive modeling and complex data analysis.

CORE COMPETENCIES

- Mobile Development:** Flutter (Dart), GetX, UI/UX Design (Figma), Android/iOS.
- AI/ML & Data Science:** Python (Pandas, Scikit-learn, NumPy), TensorFlow Lite, Pose Estimation (MoveNet), Deep Learning, Pattern Recognition, Agentic Architectures.
- Tools & Backend:** Git/GitHub, Firebase, RESTful API Integration, SQL, Postman, TFLite Inference.

SELECTED PROJECTS

GEMA: Digital Physiotherapy with Pose Estimation & Gamification (Thesis) *Lead Developer & AI Researcher | 2025 – Present*

- High-Speed Inference:** Designed and implemented a real-time pose estimation system using **MoveNet Lightning** for post-stroke rehabilitation, achieving low-latency feedback on mid-range Android devices.
- Behavioral Engineering:** Applied the **Octalysis Gamification Framework** (8 Core Drives) to increase patient motivation and adherence to therapy sessions.
- On-Device Processing:** Integrated TFLite models directly into Flutter to ensure data privacy and offline functionality, eliminating server-side latency.

Public Sentiment Dashboard for YouTube Analytics *Full-stack Developer | 2024*

- Built an end-to-end sentiment analysis pipeline using **Python, Streamlit, and GitHub Actions** to monitor public opinion trends automatically.
- Visualized complex data clusters using Word Clouds and Trend Graphs to provide actionable insights into digital discourse.

WORK EXPERIENCE

PT. Razen Teknologi Indonesia | Software Developer Intern *Aug 2025 – Dec 2025*

- Collaborated on the development of cross-platform mobile features using **Flutter**, focusing on scalable UI components.

- Implemented **GetX State Management** to optimize application performance and maintainability across complex modules.
- Coordinated with backend teams to integrate **RESTful APIs**, ensuring seamless synchronization between the mobile front-end and cloud services.

Home Credit Indonesia x Rakamin Academy | Data Scientist Intern (Project-Based) Oct 2025 – Nov 2025

- Developed a high-accuracy credit risk prediction model using **LightGBM**, outperforming the baseline Logistic Regression model with an **AUC score of 0.7550**.
- Engineered a data pipeline to clean and process 122+ features from 10 complex datasets, utilizing **StandardScaler** and **One-Hot Encoding**.
- Presented business recommendations based on **Feature Importance analysis**, identifying key risk factors such as external credit scores and stability of employment.

EDUCATION

Universitas Harkat Negeri Bachelor of Applied Science in Informatics Engineering | Expected Sept 2026

- **Focus:** Mobile Development and Applied Artificial Intelligence.
- **Current Status:** Final Year Student (Completing Thesis/Final Project).

CERTIFICATIONS

- **Associate Data Scientist (Level 5)** – Badan Nasional Sertifikasi Profesi (BNSP), 2025.
- **Home Credit Indonesia Data Science Project-Based Internship** – Rakamin Academy, 2025.
- **Generative AI for Education** – Ministry of Communication and IT (Kominfo), 2025.
- **Competency Certification in Multimedia** – BNSP, 2022.

ADDITIONAL INFORMATION

- **Languages:** Indonesian (Native), English (Intermediate - Professional Working).
 - **Interests:** Hybrid AI Architectures, Neuroplasticity in Tech, Interactive Media.
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