Gede Bagus Krishnanditya Merta

AI/ML Engineer | Computer Vision | Software Engineer

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SUMMARY

Informatics graduate from Telkom University (Summa Cum Laude, GPA 3.96/4.00) with experience in machine learning, computer vision, and software engineering. Experienced in developing ML solutions and integrating them into web and mobile applications, including on-device machine learning with CoreML. Currently at Apple Developer Academy, developing native applications using Swift and SwiftUI while applying Human-Centered Design and Apple platform frameworks. Industry experience includes ML and data-driven projects at PT Salam Pacific Indonesia Lines and PT Telkom Indonesia, with a focus on translating data and models into practical software solutions.

EDUCATION

Apple Developer Academy @ Infinite Learning | Batam, Indonesia
iOS Developer (Mar 2026 - Present)

- **Relevant Studies** : CoreML, Vision Framework, Foundation Models, Apple Intelligence, Swift & SwiftUI, Apple Native Frameworks, Human Interface Guidelines (HIG), iOS Application Development, Human-Centered Design (HCD), Challenge Based Learning (CBL)

Telkom University | Bandung, Indonesia
Bachelor of Informatics (Aug 2022 - Jan 2026)

- **GPA :** 3.96/4.00 (Summa Cumlaude)
- **Relevant Studies**: Machine Learning, Introduction to Artificial Intelligence, Computer Vision, Swarm & Evolutionary Computation, Probability Theory, Data Science, Algorithm Programming, Data Structures, Database Modeling, Software Engineering, Theory of Languages & Automata.
- **Thesis Title**: Multimodal Information Credibility on Social Media X Using a Hybrid CNN-BiGRU with Particle Swarm Optimization (Published in IEEE, DOI DOI: 10.1109/ICICyTA68677.2025.11362759)

PROFESSIONAL EXPERIENCE

Apple Developer Academy @ Infinite Learning | Batam, Indonesia
iOS Developer Learner (Mar 2026 – Present)

- Developed 5 native iOS applications using Swift and SwiftUI, integrating on-device machine learning and Apple frameworks such as CoreML and Vision and applied Human-Centered Design (HCD) in App Development.
- Collaborated in cross-functional Agile teams of up to 10 members, contributing to sprint planning, code reviews, and usability testing.

PT Salam Pacific Indonesia Lines (SPIL)| Jakarta, Indonesia
AI Software Engineer Intern (Sep 2025 – Des 2025)

- Integrated ML outputs with web applications through Flask and PostgreSQL, supporting real-time data processing, risk scoring, and operational decision-making.
- Developed responsive frontend interfaces using React.js for ship operation and early-warning medical systems, translating operational workflows into interactive dashboards and user-facing features.

PT Telkom Indonesia - Direktorat Digital Business | Bandung, Indonesia
Data Analyst Intern (Jun 2025 – Sep 2025)

- Conducted user interviews and field research with greenhouse farmers and association stakeholders to identify business needs and translate them into system requirements.
- Designed a data-driven Decision Support System (DSS) for greenhouse farming using the Thinking Like a Data Scientist (TLADS) approach, developing business initiatives, use cases, and class diagrams.
- Developed a Visual Model to visualize planting schedules, harvest data, revenue, and SHU distribution, supporting validation and iteration of the proposed dashboard.

PT Telkom Indonesia – Digistar Class 2024 | Jakarta, Indonesia (Online)
Front End Mentee (Aug 2024 – Oct 2024)

- Applied React.js concepts learned throughout the Digistar Class to develop a front-end platform for BigBox, automating XLS-to-JSON data preprocessing using React Router, Props, and State.
- Won Best Project Team among 100+ teams as part of a 5-member cross-functional team delivering the product architecture, UI implementation, and business integration.

ORGANIZATIONAL EXPERIENCE

Himpunan Mahasiswa Informatika – Telkom University | Bandung, Indonesia
Algorithm Programming Tentor (Sep 2024 – Jan 2025)

- Mentored 2 study groups of freshman Informatics students (Class of 2024, 5 students per group, total 10 students) to strengthen core programming fundamentals.
- Conducted weekly mentoring sessions across a 5-week intensive program leading up to mid-semester exams, teaching Golang fundamentals (conditional logic if-else, loops, functions/subprograms, and arrays).

Informatics Laboratory – Telkom University | Bandung, Indonesia
Practical Assistant (Jan 2024 – Jun 2025)

- Mentored 200+ undergraduate Informatics students across basic artificial intelligence laboratory courses, algorithm programming and data structures.
- Coordinated laboratory activities for 200+ students, standardizing grading rubrics, aligning weekly syllabus delivery, and supporting teaching assistants.

Central Computer Improvement (CCI) – Telkom University | Bandung, Indonesia
Data Research Division Member (Feb 2023 – Dec 2023*)*

- Studied Python fundamentals and applied Pandas and NumPy for data wrangling, exploratory analysis, tabular filtering, and matrix operations.
- Created data visualizations and exploratory distribution plots using Matplotlib and Seaborn, while participating in weekly technical workshops and data exploration activities.

HONORS, AWARDS & SKILLS

Recognitions: Best Project Team – Digistar Class (2024); P2MW Awardee (2024)

Languages : English (Professional Proficiency, EPRT 527), Indonesian (Native)

Projects: Arterious – Family Health Monitoring iOS App (2026); RONA – On-Device AI Acne Detection & Recovery Tracking (2026); Footsal – Real-Time Futsal Training App (2026); KoalaFit – iOS & watchOS Interactive Fitness Companion (2026); BizzGrow – Multiplatform Sales Forecasting & Sync System (2024); Suicidal Tweets Detection – NLP (2024); Swarm Evolutionary: PSO & GA from Scratch (2024); Tomato Leaf Disease Detection (2024); Stroke Risk Prediction (2024)

Certifications: Udemy Machine Learning A-Z (2025); Microsoft Azure AI Fundamentals (AI-900) (2025); IBM Code Generation and Optimization Using IBM Granite (2025); Dicoding Basic Python Programming (2025); Dicoding Basic Data Visualization (2025); Tempat Belajar Mini Graphic Design Course (2023)

Technical Skills:
Languages: Swift, Python, SQL
Machine Learning & AI: PyTorch, TensorFlow, Scikit-learn, CoreML, YOLO, Hugging Face, NLP, Computer Vision, NumPy, Pandas
Database & Backend: MySQL, PostgreSQL, Supabase, Firebase, CloudKit, REST API
Tools: Git, Jupyter, Kaggle, Streamlit, Google Colab, Roboflow

Soft Skills: Team Collaboration, User-Centered Thinking, Problem Solving, Analytical Thinking, Communication