MUHAMMAD HAFIDZ RIZKI

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PROFILE

Muhammad Hafidz Rizki is an undergraduate Computer Science student at IPB University with a strong interest in machine learning, data analysis, and software engineering. He is a motivated and responsible learner with good analytical and time management skills, eager to apply his knowledge to solve real-world problems and contribute to technology-driven projects.

EDUCATION

IPB University - Bogor, Indonesia   **Aug 2022 – 2026 (expected)**
Bachelor's Degree in Computer Science

SMAN 11 Bekasi - Bekasi, Indonesia   **July 2019 – June 2022**
High School Diploma in Mathematics and Natural Sciences

EXPERIENCE

PT Salam Pacific Indonesia Lines   **Sep 2025 – Dec 2025**
AI Project Intern
- Developed web-based dashboards and input forms for ship operations and medical early warning systems using React.js, interacting closely with backend services built on Flask and PostgreSQL.
- Built and integrated machine-learning prediction features for truck unloading operations, spanning from data preprocessing and model training to deployment via backend APIs for real-time utilization.
- Built predictive models to estimate time-to-next-failure of operational equipment, facilitating data-driven maintenance planning and minimizing unexpected downtime.
- Developed a web-based IER Case Management application using React.js and Flask for case tracking and approval workflows, integrated with internal LLM services to assist in case chronology parsing and sanction suggestions.

Coding Camp powered by DBS Foundation   **Feb 2025 – Jul 2025**
Machine Learning Engineer Cohort
- Develop and implement machine learning models using Python, TensorFlow, and Keras to solve real-world case studies.
- Perform data exploration and cleaning, statistical analysis, and data pipeline creation with SQL and related Python libraries.
- Collaborate in a team to work on a machine learning-based final project, covering the end-to-end process from data preprocessing to model evaluation.

IEEE IPB Student Branch   **Feb 2024 – Dec 2024**
Vice President of Finance and Administration
- Lead the organization's financial management, including budget planning, financial reporting, and periodic evaluation of fund utilization.
- Prepare and manage administrative documents and correspondence to ensure smooth operations.
- Play an active role in the organization's strategic decision-making and lead cross-divisional coordination to support the organization's work programs and activities.

First Year Performance Foundation   **Sep 2023 – Sep 2024**
Tutor
- Providing academic guidance to first-year students in the courses Computational Thinking, Statistics, Algorithms and Programming, and Discrete Mathematics.
- Delivering course material individually and in groups, both online and in-person, using an adaptive approach tailored to students' learning needs.
- Assisting with homework assignments and programming exercises, explaining concepts from basic to advanced levels, and providing technical solutions and academic feedback.

PROJECTS

Qtancy – AI-Powered Web Application for Receipt & Document Management   **May 2025 – Jun 2025**

Coding Camp powered by DBS Foundation
- Developing machine learning models to extract structured information (store name, date, items, total) from Indonesian receipts using OCR and sequence models built with TensorFlow.
- Implementing and evaluating a BiLSTM-based classifier (QRep) to categorize transactions into spending categories using labeled receipt datasets.
- Collaborating with frontend and backend developers to design the ML pipeline and expose models through REST APIs for integration into the team's web application.

Pembangunan Dashboard Kinerja Pusat Studi   Feb 2025 - Jun 2025
Capstone Project, IPB University
- Built a web-based dashboard to monitor and visualize study center performance indicators using TypeScript and modern frontend tooling.
- Implemented pages to display yearly performance data and manage uploaded Excel files by consuming REST APIs from the backend.

IPB Dataverse Data Portal – CKAN Customization   Nov 2025 - Dec 2025
Developer, IPB University
- Setting up a CKAN-based data portal using Docker Compose, then working on a custom CKAN theme/extension to align the portal's interface with IPB Dataverse branding and improve the user experience for research data discovery and access.
- Collaborating with teammates to configure environment variables, manage services, and test the portal locally, ensuring that the setup can be used as a base for future customization and production deployment.

SKILLS

- Soft Skills : Teamwork, Time Management, Problem Solving, Communication, Leadership.
- Hard Skills : TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Deep Learning, React.js, Next.js, Tailwind CSS, FastAPI, Flask, PostgreSQL, Git/GitHub.
- Languages: Indonesian (Native), English (Intermediate).
- Programming languages: Python, JavaScript, TypeScript, SQL, HTML, CSS.
- Interests: Machine Learning, Data Analysis, Software Engineering.

ACHIEVEMENTS

- 3rd Place Proyek Sinergi TerGNRM IPB University 2022
- 1st Place Creature 2022 IPB University

CERTIFICATIONS

Associate Data Scientist   Issued Aug 2025 - Expires Aug 2028
Badan Nasional Sertifikasi Profesi (BNSP)

Membangun Sistem Machine Learning   Issued Oct 2025 - Expires Oct 2028
Dicoding Indonesia

Machine Learning Terapan   Issued Jun 2025 - Expires Jun 2028
Dicoding Indonesia

Belajar Pengembangan Machine Learning   Issued May 2025 - Expires Jun 2028
Dicoding Indonesia

Belajar Fundamental Pemrosesan Data   Issued May 2025 - Expires Jun 2028
Dicoding Indonesia

Belajar Membuat Front-End Web untuk Pemula   Issued Dec 2024 - Expires Dec 2027
Dicoding Indonesia

Belajar Back-End Pemula dengan JavaScript   Issued Nov 2025 - Expires Nov 2028
Dicoding Indonesia

Next.js App Router Fundamentals   Issued Sep 2025
Vercel