MUHAMAD HILMI HAIDAR

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Bogor, Indonesia

Fresh graduate in Computer Engineering from Telkom University with GPA 3.51, skilled in data science, machine learning, and software development. Experienced in predictive modeling, real-time sensor data processing, and application development through academic projects and internship at BRIN.

Education Level

Universitas Telkom - **Bandung, Indonesia**   Aug 2021 - Aug 2025

Bachelor of Computer Engineering, 3.51/4.00

Work Experiences

Badan Riset dan Inovasi Nasional RI (BRIN RI) - **Bandung, Indonesia**   Jun 2024 - Sep 2024

Intern

- Built and evaluated weather forecasting models using LSTM and ARIMA, aiming to provide early warnings for potential radioactive dispersion and environmental hazards around BRIN's nuclear facility in Bandung.
- Processed and analyzed large-scale meteorological datasets (wind direction, speed, temperature, humidity, rainfall) for predictive modeling.
- Conducted data preprocessing, time series analysis, and feature selection to improve model accuracy and robustness.
- Collaborated with a research team to optimize model performance and integrate insights into a real-world early-warning system.
- Worked with a full stack of tools including Python, Pandas, Scikit-learn, Matplotlib, VS Code, and Git to streamline modeling pipelines.

Organisational Experience

Himpunan Mahasiswa Teknik Komputer (HMTK) - **Bandung, Indonesia**   Dec 2024 - Aug 2025

Head of Entrepreneuship Department

- Led the Entrepreneurship Department to strengthen the identity and unity of the Computer Engineering student body through brand-focused initiatives.
- Directed the production and distribution of official apparel including Pakaian Dinas Harian (PDH) for cabinet members and organization jackets for post-cadre students.
- Launched and managed the creation of Teknik Komputer merchandise to enhance program visibility and community pride.
- Oversaw budget planning, vendor coordination, and marketing efforts to ensure timely and impactful product rollouts.
- Fostered a culture of entrepreneurship and collaboration among students through identity-driven creative projects.

Himpunan Mahasiswa Teknik Komputer (HMTK) - **Bandung, Indonesia**   Oct 2023 - Dec 2024

Staff - Entrepreneurship Department

- Actively contributed as a staff member of the Entrepreneurship Department, assisting in the planning and execution of programs that promote student identity and cohesion.
- Participated in the early ideation and support of key initiatives including official apparel, merchandise, and event branding.
- Supported logistical coordination and team operations to ensure successful program implementation and student engagement.
- Collaborated closely with senior members in executing department goals with a focus on visibility and internal pride.

i-Smile Laboratory - **Bandung, Indonesia**   Jun 2024 - May 2025

Inventory Coordinator

- Managed and updated the complete inventory database of laboratory tools, components, and material ensuring precise documentation of item quantity and condition (good, damaged, or missing).
- Conducted regular stock evaluations and condition audits, helping maintain laboratory readiness for academic and research use.
- Flagged shortages and damage reports for timely procurement and repair coordination.
- Improved the accuracy and traceability of inventory records by implementing a structured system for tracking incoming and outgoing lab assets.
- Collaborated with lab supervisors to align inventory status with budgeting and procurement planning.

i-Smile Laboratory - **Bandung, Indonesia**   Jun 2024 - Dec 2024

Laboratory Assistant

- Guided and mentored students during the Artificial Intelligence practicum, covering 4 key modules: Search Algorithms, Fuzzyfication, Fuzzy Inference Logic, and Defuzzyfication, as well as Genetic Algorithms.
- Delivered hands-on instruction and troubleshooting assistance to ensure practical understanding of complex AI concepts and algorithm implementation.

- Assisted in organizing lab sessions, preparing instructional materials, and maintaining lab equipment to ensure smooth and safe operations.
- Collaborated with academic staff to evaluate student performance and enhance practicum content based on feedback and learning outcomes.
- Contributed to the development of students' computational thinking and real-world application of AI techniques.

Grab It Fast 2023 - Bogor, Indonesia   Sep 2022 - Jul 2023
Public Documentation Team Member
- Contributed to the documentation and visual content creation for Grab It Fast 2023, a major student-organized national event.
- Responsible for producing live report content on the official Instagram account during event day to provide real-time updates and audience engagement.
- Collaborated with the documentation team to maintain consistency in tone, branding, and visual design across event communications.
- Supported documentation layout design and final content compilation prior to and after the event.

Certification

- **Certification** (2025): Udemy – Machine Learning A-Z: AI, Python & R + ChatGPT Prize
- **English Profiency Test** (2025): LAC Telkom University - CEFR B2 (Upper Intermediate) valid until 2027