



# 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.

## Work Experiences

Badan Riset dan Inovasi Nasional RI (BRIN RI) - Bandung, Indonesia

Jun 2024 - Sep 2024

Intern

- Built and evaluated weather forecasting models (LSTM, ARIMA, MLP) with up to 15% accuracy improvement over baseline methods, supporting early warnings for potential radioactive dispersion near BRIN's nuclear facility in Bandung.
- Processed and analyzed 200,000+ meteorological records (wind direction, wind speed, temperature, humidity, rainfall) to build predictive datasets.
- Optimized time series forecasting models, reducing RMSE by 20% and improving robustness against noisy data.
- Collaborated with a research team to optimize model performance and integrate insights into a real-world early-warning system.
- Developed end-to-end pipelines using Python, Pandas, Scikit-learn, PyTorch, Matplotlib, Git, and VS Code, cutting preprocessing time by 30%.

## Education Level

Universitas Telkom - Bandung, Indonesia

Aug 2021 - Aug 2025

Bachelor of Computer Engineering, 3.51/4.00

- Final Thesis: Cuacane – real-time weather app with ML forecasting & dispersion simulation in collaboration with BRIN
- Head of Entrepreneurship Dept. HMTK – led 3+ branding & merchandise projects for 300+ students
- Laboratory Assistant at i-Smile Lab – mentored 60+ students in AI modules (Search, Fuzzy, Genetic Algorithms)

## Organisational Experience

Himpunan Mahasiswa Teknik Komputer (HMTK) - Bandung, Indonesia

Dec 2024 - Aug 2025

Head of Entrepreneurship Department

- Led the Entrepreneurship Department to strengthen the identity and unity of the Computer Engineering student body through brand-focused initiatives.
- Directed 3+ branding and merchandising projects, reaching 300+ students and enhancing the organization's identity.
- Managed budget allocation exceeding IDR 50 million for production of official apparel (PDH and jackets) and student merchandise.
- Coordinated with 4 vendors to ensure timely rollouts, achieving 100% on-time delivery across initiatives.
- Led a 5-member team, fostering a collaborative culture and boosting internal engagement by 25% through creative campaigns.

Himpunan Mahasiswa Teknik Komputer (HMTK) - Bandung, Indonesia

Oct 2023 - Dec 2024

Staff - Entrepreneurship Department

- Supported execution of 3 major apparel and branding initiatives, ensuring availability for 200+ students.
- Assisted with operational and logistical planning, improving efficiency of department workflows by 30%.

i-Smile Laboratory - Bandung, Indonesia

Jun 2024 - May 2025

Inventory Coordinator

- Managed and documented 100+ lab items across electronics and research equipment, ensuring 100% traceability.
- 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 inventory system efficiency by 20% through structured tracking templates.
- Collaborated with lab supervisors to align inventory status with budgeting and procurement planning.

i-Smile Laboratory - Bandung, Indonesia

Jun 2024 - Dec 2024

Laboratory Assistant

- Delivered practical instruction to 60+ students across 4 AI modules (Search Algorithms, Fuzzy Logic, Genetic Algorithms, Defuzzification).
- 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.
- Produced 20+ live report content pieces on Instagram, increasing online engagement by 35% during event day.
- Collaborated in a 10-person documentation team to ensure consistent branding across event communications.
- Contributed to design and compilation of 100+ documentation assets for pre- and post-event publishing.

## **Skills, Achievements & Other Experience**

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- **Certification** (2025): Udemy – Machine Learning A-Z: AI, Python & R + ChatGPT Prize
- **English Proficiency Test** (2025): LAC Telkom University - CEFR B2 (Upper Intermediate) valid until 2027
- **Soft Skills:** Team Leadership & Collaboration, Project Management, Strategic Planning, Problem Solving & Critical Thinking, Communication (English & Bahasa), Attention to Detail Adaptability, Marketing & Branding
- **Hard Skills:** Machine Learning & Deep Learning Python (Pandas, Scikit-Learn, PyTorch), Time Series Forecasting, Data Analysis & Visualization, Artificial Intelligence (AI), Software Development (Desktop Apps), Web Development (React & Vercel), Business Analysis