

Jihan Affifah Mirzani

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SUMMARY

Information systems graduate from Hasanuddin University with a strong focus on Artificial Intelligence (AI) and Data Analytics. Possessing hands-on experience in data modeling, visualization, and AI application, I have developed AI models for image classification, building RAG-based chatbots with multi-platform integration (Docker, Supabase, Pinecone, PostgreSQL, n8n), and conducting blockchain-based analytics projects for mangrove conservation. Proven track record in academic research, web development internships, and national independent study programs (MSIB). Additionally, completed Azure AI Fundamentals training with a certificate of completion, strengthening cloud-based AI solution skills. Known for being adaptive, analytical, and a fast learner, with the ability to bridge technical solutions and business model.

EXPERIENCE

Eco-Techno Leader Digital Bootcamp by ECC (Engineer Career Center) x NIN (Nawala Integra Nusantara)

April 2025 – Present

- Developed a chatbot systems by integrating a comprehensive tech stack, including RAG with Jina AI and Gemini, as well as Supabase, Docker, N8N, Pinecone, and PostgreSQL.
- Analyzed and visualized 14 datasets from the Mangrove-Chain Project, a blockchain-based analytics systems for mangrove conservation, through five case studies using techniques such as time series forecasting, heatmap matrices, 3D scatter plots, geospatial maps, and network graphs with Pyvis.
- Learned foundational python programming structures, including variables, data types, operators, if-else statements, OOP, exception handling, tuples, lists, dictionaries, function, and more.

Undergraduate Thesis at Hasanuddin University

Oct 2024 – Jan 2025

- Researched the impact of blur vs combined augmentation techniques (flip, rotation, color adjustment) and input size variations (100x100, 256x256, 300x300 pixels) on model performance.
- Achieved the best result of 97% test accuracy with 300x300 input size using combined augmentation.
- Developed a mobile application that integrates the trained EfficientNetV2-L model, providing near real-time detection and treatment recommendations for tomato, potato, and pepper bells leaves.
- Implemented the system using Firebase for storing detection results and a Niagahoster VPS running Ubuntu (accessed via Termius SSH) for data processing. Detection results were processed on the server, returned in JSON format, and then parsed and transformed into user-friendly outputs in the mobile application.

Independent Internship at PT Telkom Infrastructure Indonesia

Nov 2024

ROC Web Developer Internship

- Collaborated in a 2-person team to develop a company leave request system through website modification over 30 days.
- In the first week, successfully added new columns to the leave form and admin dashboard (role, unit, and relative data), updated database structure to store new data, and fixed the user login system.
- In the second and third weeks, implemented a 3-level approval system (unit coordinator, unit manager, and helpdesk manager) with unit-based access control, complete with visual tracking (3 round indicators), automatic form filling, and digital signatures.
- In the final week, designed 2 new dashboards (admin and approval) with complete submission history features (canceled/in process/approved), user management, progress tracking, leave reason preview (minimum 30 words displayed), and mandatory approval notes system for approvers.

Independent Study at Orbit Future Academy Cycle 6

Feb – June 2024

Artificial Intelligence for Jobs

- Completed 22 small coding exercises and 1 major project within a period of almost 4 months.
- In the final project, I played a role in processing, modeling, and developing models, as well as evaluating models, ultimately resulting in achieving the best model accuracy of 90%.
- The final project focuses on skin type classification, aiming to assist young individuals in accurately determining their skin types, thus aiding in proper skincare.
- Completed 8 courses consisting of 46 topics on AI, 16 topics related to soft skills, and 2 job readiness topics: job readiness and financial literacy. Each course included several small quizzes.

AI for Azure 102 Training by Talenta AI

May - June 2024

- Completed 1 post-test and pre-test, and 17 chapters including: machine learning, regression, classification, clustering, image classification, object detection, facial analysis, and recognizing and synthesizing speech.
- Participated in a 7-day session class for 14 hours with a coach and completed daily Microsoft pre-test exercises at the end of each learning session.

Proceeding KONIK

Des 2023

- Responsible for gathering journals and drafting comprehensive reports.
- Produced the final outcome in the form of proceedings titled 'The Influence of Shopee Affiliate on Consumer Behavior', where with 51 respondents, its influence was found not to be particularly strong, for a conference themed 'Transformation of AI-based Learning Systems'.

ACTIVITIES AND LEADERSHIP

Student Council Organization

Sulteng

Chair of the section

2020 – 2021

- Organized and promoted the sale of various types of stationery, including mobile credit.
- Regularly conducted food sales using a door-to-door ordering system and participated in bazaars.

Al Azhar Festival

Sulteng

Ticketing Section

August – Des 2019

- Launching the inaugural school event in Palu, integrating barcode technology for ticket validation upon entry.
- Debuting a two-day festival showcasing Vierratale, with ticket sales exceeding 2000.

Charity Event

Sulteng

Teaching Assistant

July 2019

- Donating 250 books and establishing a mini library in a remote village
- Initiating a societal campaign to underscore the significance of reading books and education across all communities, providing outreach on the dangers of substance use, and promoting awareness against hoaxes among adults/parents.

EDUCATION

Hasanuddin University

2021 - 2025

Bachelor of Computer (Information Systems)

- GPA: 3.50 out of 4.00
- Relevant coursework: Deep Learning, Information Systems Engineering, Data Mining, Probability Theory, Information Visualization, and Business Intelligence

Al-Azhar Mandiri Palu Senior High School

2018 - 2021

- Ranked among top 50 SNMPTN-eligible students

ADDITIONAL

Technical Skills: Python, Visual Studio Code, Jupyter, Tableau, Google Colab, Beginner Azure, Anaconda, Microsoft Power BI, Flutter, Termius, Ubuntu, Firebase, Niagahoster VPS, PostgreSQL, HeidiSQL, Docker, Supabase, N8N, Pinecone, RAG.

Soft Skills: Growth Mindset, Empathy, Adaptability, Communication skills, Time management skills, Feedback skills, Collaboration skills, Creativity.

Languages: Intermediate in English; Conversational Proficiency in Indonesia.

Certifications & Training: Certificate of Participation for MSIB (Merdeka Study Independent Campus) Cycle 6 (2024), Talenta AI Certificate of Completion Microsoft Azure AI Fundamentals (2024), RevoU Certificate of Completion in Intro to Data Analytics (2023), DQLab Certificate of Completion in Python, SQL Fundamental for Data Science (2021).

Certificate link: https://drive.google.com/drive/folders/1jfe_ygPEmcJZ8o9T2yv5ggaUnluq_Bzn?usp=sharing

Portfolio link: <https://portfolio-jihanaifahm.my.canva.site/>