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Top Skills

Agentic AI Engineering
LangChain
Prompt Engineering

Languages

English (Professional Working)
Chinese (Elementary)
Indonesian (Native or Bilingual)

Certifications

Food Product Development
Certificate - Nestlé YEP FoodTech
Training
Metaverse Engineer
Consumer Understanding Certificate
- Nestlé YEP FoodTech Training
Introduction to Data Science with R
"Solution Creation" Certificate

Honors-Awards

1st place in FMIPA UB New Student
Sports Week in Field Tennis (2020),
2nd Place – Regional Tennis
Championship (Kejurda), East
Kalimantan (2012)
3rd Place – Elementary School
Sports Week (POR SD), East
Kalimantan, 2012
3rd Place – Team Category,
Regional Tennis Championship
(Kejurda), East Kalimantan
1st Place – Bontang U-10 Tennis
Championship

Muhammad Iqbal Hilmy Izzulhaq

Data Scientist | Agentic AI Engineer • Multi-Agent Systems • RAG
Systems | NLP for Law & Governance
Jakarta Metropolitan Area

Summary

I build AI systems that go beyond conversation, agents that can reason, retrieve, collaborate, and act.

At DPR RI, I apply agentic and retrieval-based AI to real-world challenges in governance, legal transparency, and public policy. My work includes analyzing large-scale national survey data (SUSENAS), conducting NLP on constitutional texts, and building legal insight systems powered by Retrieval-Augmented Generation (RAG) and autonomous agents.

I've developed end-to-end workflows using tools like OpenAI's function calling, multi-agent coordination frameworks, graph-based architectures, and persistent memory systems. Whether it's coding in Python or orchestrating tools with no-code platforms like Dify.AI or n8n, I focus on building AI that's reliable, interpretable, and socially relevant.

With a background in physics and deep curiosity for systems thinking, I'm especially drawn to AI projects where language meets logic, and where impact meets ethics.

Current Interests:

- AI Agents & Multi-Agent Systems
- NLP for Legal & Civic Tech
- RAG Systems & Structured Search
- Tool-Augmented LLMs with Memory & Planning

Always learning. Always shipping. Always asking: how can we use AI to make things clearer, not just faster?

Experience

The House of Representatives, Republic of Indonesia (DPR RI)

Data Scientist

April 2025 - Present (5 months)

Central Jakarta, Jakarta, Indonesia

Digital Talent Scholarship

AI Developer

June 2023 - October 2023 (5 months)

Indonesia

This training will cover the topic of Artificial Intelligence. Participants will learn about the concepts of Artificial Intelligence, the latest trends and developments in AI technology, Full-stack AI-Scenario AI Strategy, Algorithms and practical development related to Traditional Machine Learning, Deep Learning, and Development Frameworks.

Digital Talent Scholarship

Metaverse Engineering

March 2023 - April 2023 (2 months)

East Java, Indonesia

This training provides the necessary knowledge to prepare for the digital society era by teaching the fundamental principles and technical pillars of Metaverse. Participants will gain hands-on experience in using, administering, and designing Metaverse according to their needs.

TELUS International

AI Community Surfer

February 2023 - April 2023 (3 months)

East Java, Indonesia

As an AI Community Surfer, my role was to evaluate search engine results and provide feedback to improve the quality of search results for users.

MPG

Manufacture Support Officer

August 2022 - December 2022 (5 months)

Bogor, West Java, Indonesia

Education

University of Brawijaya

Bachelor of Science - BS, Physics · (August 2019 - December 2023)

Purwadhika Digital Technology School

Data Science and Machine Learning · (October 2024 - February 2025)

SMA Swasta Vidya Dahana Patra (VIDATRA)

Natural Sciences · (July 2016 - July 2019)