

## Contact

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(Blog)

## 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  
Artificial Intelligence Fundamentals

## 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

# Muhammad Iqbal Hilmy Izzulhaq

Data Scientist | AI Engineer  
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.

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## 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?

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## Experience

1st Place – Bontang U-10 Tennis  
Championship

The House of Representatives, Republic of Indonesia (DPR RI)  
Data Scientist  
April 2025 - October 2025 (7 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

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## 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)