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Top Skills

Large Language Models (LLM)
Retrieval-Augmented Generation (RAG)
Deep Learning

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

Muhammad Iqbal Hilmy Izzulhaq

Data Scientist | Agentic AI & RAG Systems | NLP • LLMs • Public
Sector Innovation
Jakarta Metropolitan Area

Summary

I build AI systems that help people make smarter decisions—especially in high-stakes, complex environments like governance, law, and public policy.

My recent work includes NLP research on constitutional texts, deploying Retrieval-Augmented Generation (RAG) systems to improve legal document retrieval, and exploring agentic AI via LangGraph, LangChain, and OpenAI Assistants. At DPR RI, I use both Python and no-code tools like Dify.AI to build practical, human-centered solutions—focusing not just on what tech can do, but what it should do.

With a background in physics and experience across disciplines, I approach problems with curiosity, clarity, and a deep respect for context. I'm especially drawn to projects that sit at the intersection of language, systems, and public impact.

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 (4 months)
Central Jakarta, Jakarta, Indonesia

Digital Talent Scholarship
AI Developer
June 2023 - October 2023 (5 months)
Indonesia

1st Place – Bontang U-10 Tennis
Championship

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)