

Data Scientist

SUMMARY

Experienced in designing **machine learning/artificial intelligence systems**, including **recommendation systems**, **value predictors** (regression/clustering), **text classifications**, and **AI Automation**. Advanced in **exploratory data analysis** (data cleaning, transformation, visualization), **machine learning/deep learning modeling**, **AI engineering** (fine-tuning, prompt engineering, RAG), and **database handling**. Ranked **top-20** in a **national mathematics competition** for college-level (ONMIPA-PT 2024), competing against **1200+** participants nationwide.

EDUCATION

Institut Pertanian Bogor (IPB University) - Bogor Regency, Indonesia

Aug 2021 – Jun 2025

Bachelor of Mathematics, 3.66/4.00

SKILLS

ProgLang & Tools	Python, R, Julia, SQL, GitHub, Git, Power BI, Excel, FAISS, ChromaDB
Libraries & Frameworks	Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, Hugging Face Transformers, n8n, LangChain, LangGraph, OpenAI API
Technical Skills	Exploratory Data Analysis, Data Cleaning, Data Visualization, Machine Learning, Deep Learning, LLM, NLP, RAG, Fine-tuning, Prompt Engineering, Teaching
Languages	English (Fluent), Indonesian (Native)

PROJECTS

- Human Resources Data Entry and Checking Automation System:** Implemented a system that automates 90% of data entry and validation process about human resources data.  
**Tools:** n8n, OpenAI API, Google Spreadsheet API.
- Semantic Course Recommender System:** Built a course recommendation system for an online learning platform using content-based and collaborative-filtering approaches. The best model achieved 0.1534 RMSE value.  
**Tools:** Python, Scikit-surprise, Scikit-learn, Pandas, NumPy, TensorFlow.
- System Logs Classification System:** Developed a log classification pipeline using hybrid approach (BERT + LLM) to optimize efficiency. Obtained 97% classification accuracy with optimized cost.  
**Tools:** Python, Pandas, Hugging Face Transformer, Scikit-learn, OpenAI API, FastAPI.
- Solaria Personalized Menu Recommendation System:** Implemented a personalized menu recommendation system using SVD technique based on user previous ratings.  
**Tools:** Julia and its libraries (DataFrames, LinearAlgebra, BenchmarkTools).
- Telegram Automated Chatbot for FnB Business:** Developed a telegram chatbot that answers customer questions about stocks and products instantly and automatically, integrated with API to give real time stocks.  
**Tools:** n8n, Qdrant, Telegram Bot API, AI Agent.
- Life Expectancy Predictor:** Built a multiple linear regression model derived from statistical analysis to identify key factors influencing life expectancy. Achieved an adj.  $R^2 = 0.659$  for the best-performing model.  
**Tools:** R and its statistical libraries.

EXPERIENCES

<b>AI Agent Trainer</b>	Aug 2025 – Present
SoftAge Information Technology Limited   Freelance	
<ul style="list-style-type: none"><li>Trained AI agent systems by performing diverse digital tasks based on text prompts to guide model learning.</li><li>Performed 15–30 tasks per hour.</li></ul>	
<b>Mathematics Tutor</b>	May 2024 – Oct 2024
Gugus Mahasiswa Matematika IPB   Contract	
<ul style="list-style-type: none"><li>Tutored fellow mathematics students on math subjects: Real Analysis and Cryptographic Mathematics.</li></ul>	
<b>Staff of Broadcasting, Event, and Service Division</b>	Dec 2022 – Dec 2023
Serambi Ruhiyah Mahasiswa G IPB   Organization	
<ul style="list-style-type: none"><li>Analyzed and visualized survey data into several charts to illustrate program impact.</li><li>Organized and executed 10+ faculty-level seminar events.</li></ul>	

## COMPETITION

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### **Honorable Mention in Mathematics at ONMIPA-PT 2024**

Ranked top-20 in a national mathematics competition (ONMIPA-PT 2024), competing against 1,200+ participants nationwide. Issued by Kemdikbudristek, Puspresnas, and BPTI.

## CERTIFICATIONS

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- IBM Machine Learning with Python & Scikit-learn, IBM.
- Large Language Model Operations (LLMOps), Duke University.