

FELIX WINDRIYAREKSA HARDYAN

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EDUCATION

Universitas Gunadarma	September 2021 – August 2025
• Bachelor of Informatics, GPA: 3.85/4.00	
Bangkit Academy	February 2024 – July 2024
• Machine Learning Specialization (Graduated with Distinction)	

EXPERIENCE

IT Intern (ML and Data Science) – PT Astra Visteon Indonesia	June 2026 – Present
• Developed a data-driven monitoring system for industrial air compressors, analyzing 150K+ operational records to identify maintenance-critical conditions and support earlier intervention.	
• Introduced the company's first AI-based predictive maintenance system, improving maintenance-critical event detection recall from 0% to 60% through feature engineering and recall-focused model optimization.	
• Built an end-to-end monitoring pipeline with Python, SQL, and FastAPI, enabling real-time anomaly detection, automated alerts, and live operational monitoring.	
AI Engineer – HPC Universitas Gunadarma (HPC-UG) (Part-time)	September 2024 – Present
• Built a production-ready AI laboratory assistant that helps students troubleshoot laboratory systems and programming issues using a fine-tuned Qwen3-8B model and Retrieval-Augmented Generation (RAG).	
• Published peer-reviewed research applying deep learning (CoralNet, InceptionV3, MobileNetV2) to automate coral bleaching detection, achieving 89% accuracy to support marine biodiversity monitoring.	
• Deployed distributed AI workloads on NVIDIA DGX-1 and DGX A100 with infrastructure teams using Docker.	

PROJECTS

InvenioAI	January 2026 – May 2026
• Built and deployed an enterprise document intelligence platform enabling semantic search and question answering using Retrieval-Augmented Generation (RAG), LangChain, and Qdrant.	
• Engineered a hybrid retrieval and reranking pipeline with FastAPI, integrating Qdrant and BM25 to improve search accuracy and response quality across enterprise documents.	
Omnibus	April 2026 – May 2026
• Developed an AI-powered media analysis platform for structured news discovery, retrieval, and analysis using Python, FastAPI, Llama 3.3, Qwen3, and Microsoft Azure.	
• Built automated workflows for news retrieval, relevance ranking, sentiment analysis, and bias analysis to support data-driven information analysis.	
AI-Powered Recruitment Screening Workflow	June 2026
• Built an AI-powered recruitment workflow using n8n that automates email-based resume screening, candidate evaluation, and job matching with LLMs, while integrating candidate data with Google Sheets.	

SKILLS

• Programming: Python, SQL, Pandas, NumPy, FastAPI, REST APIs, Git, Docker, React.
• AI & Machine Learning: Machine Learning, Deep Learning, NLP, Computer Vision, LLMs, Generative AI, Retrieval-Augmented Generation (RAG), AI Agents, Prompt Engineering, PEFT, QLoRA.
• Frameworks & Tools: PyTorch, TensorFlow, Scikit-learn, n8n, Zapier, Hugging Face Transformers, LangChain, LlamaIndex, Pydantic AI, XGBoost, Qdrant, FAISS.
• Cloud & MLOps: Docker, Microsoft Azure, Google Cloud Platform (GCP), CI/CD, MLOps.
• Languages: Bahasa Indonesia (Native), English (Professional Proficiency, TOEFL ITP: 650).

CERTIFICATIONS

BNSP Certification for Associate Data Scientist – BNSP	September 2025
TensorFlow: Data and Deployment Specialization – DeepLearning.AI	May 2024
DeepLearning.AI TensorFlow Developer – DeepLearning.AI	April 2024
Machine Learning Specialization – Stanford University	March 2024
SQL Server for Intermediate – Universitas Gunadarma	February 2024