Benedictus Ryu Gunawan

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About Me

I am an Artificial Intelligence Engineering student at Sepuluh Nopember Institute of Technology (ITS) with a deep passion in Data Science, Machine Learning (DSML), and Backend development. Equipped with an depth understanding of ML and a background in competitive programming, I thrive on sharpening my analytical and problem-solving skills. I am a fast learner who adapts quickly to new technologies, and I am fully committed to continuous growth in the dynamic tech ecosystem.

Education

Sepuluh Nopember Institute Of Technology — Surabaya, Indonesia
Artificial Intelligence Engineering. GPA: 4.00 — August 2025 - Sekarang
Focus: *Artificial Intelligence,Data Science, Backend Development*

Petra 5 Senior High School — Surabaya, Indonesia
Physics, Informatics, Chemistry, Advanced Mathematics — June 2022 - June 2025

Organization and Community

Himpunan Mahasiswa Teknik Computer-Informatika (HMTC) ITS — Surabaya, Indonesia
Research and Technology Department Apprentice — October 2026 - Now

- Participate on research and technology work program (Elite TC Champions, PKTI-TD, SkenaIT)

Avalon AI Community — Surabaya, Indonesia
Data Science and Artificial Intelligence Division — November 2025 - Now

- Create final projects with theme of road prioritization using Graph Neural Network (GNN) and Frontier Computer Vision
- Qualify from 3 Avalon exam (Math for Machine Learning, Computer Vision dan, GAN-Diffusion)

Event Committee or Volunteer

ISE! Academy ITS — Surabaya, Indonesia
Data Science Mentor — September 2026

- Jury for over 74 team with total 200++ participants final projects
- Mentor for 10+ teams and guide them for hands on project

Schematics ITS — Surabaya, Indonesia
Data Science Competition Staff — May 2026 - Now

- Designed and evaluated contest, implementing robust measures to prevent cheating and data leakage
- Collaborate with other staff to discuss competition format and rules
- Scrap data from to internet and make sure the quality for qualification stage

Research and Technology Department HMTC ITS — Surabaya, Indonesia
Volunteer Elite TC Champions — May 2026 - Now

- Provide newest competition information by updating periodically

Work Experience

Quzuu Indonesia — Surabaya, Indonesia
Backend Developer & Data Engineer — November 2025 - Now

- Developed a reliable ETL migration pipeline to transfer 50,000+ questions with data integrity and consistency.
- Successfully resolved 50+ technical tickets using Agile methodologies, ensuring continuous project delivery.

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Personal Projects

Garden Bunga
Efficient Hybrid Sequence Modeling for Indonesian Speech Synthesis via Multilingual Knowledge Transfer

- Best Implementation Project in KCVanguard 2026 workshop by Intelligent Computing and Vision Laboratory
- Sucessfully reduce inference time complexity from N * O(n2) to (N−k)O(n2) + k * O(n)

IndFood Clustering
Unsupervised Representation Learning for Indonesian food clustering using DINO, UMAP, and K-Means

- Best Implementation Project in Lab Based Education by Intelligent Computing and Vision Laboratory
- Successfully cluster 15 type of Indonesian local food within score Silhouette coefficient 0,6714, Davies-Bouldin index 0,4707, and Trustworthiness 0,9639

SiLaju
Integrated Road Report System with Graph Neural Network Prioritization and ResNet Classification

- First place on DINACOM 11.0 Qualification Stage and Third place on final stage
- Integrating worker, governments, and public with centralized system

SiTukang
A low-latency Retrieval-Augmented Generation pipeline integrated for workman calling

- Third Place on Gunadarma Code Week 2.0 (GCW) Hackathon Competition
- Integrate a Retrieval-Augmented Generation (RAG) pipeline into a mobile application using a Google-based environment, with low latency (~20 ms), designed to support customer-worksman P2P.

Achievements and Honors

- ✔ Best Implementation Project on KCVanguard Workshop held by Intelligent Computing and Vision Laboratory
- ✔ Best Implementation Project on Lab Based Education held by Intelligent Computing and Vision Laboratory
- ✔ Most Active Participants on Bluecamp held by Research and Technology Department HMTC ITS
- ✔ Fifth Place on HOLOGY 10.0 Holomine Competition held by Faculty of Computer Science Brawijaya University on October 2026
- ✔ Second Place UNY IT Competition (UNITY) #14 Data Mining Competition held by Universitas Negeri Yogyakarta on June 2026
- ✔ Third Place Gunadarma Code Week 2.0 (GCW) Hackathon Competition held by Gunadarma University on June 2026
- ✔ Third Place on DINACOM 11.0 Hackathon Competition held By Dian Nuswantoro Computer Club and Dian Nuswantoro University (UDINUS) on January 2026
- ✔ Finalist on Big Data Challenge (BDC) Stats Explore held by Himpunan Mahasiswa Statistika FMIPA Universitas Syiah Kuala on September 2025
- ✔ ITS representatives on Big Data Challenge (BDC) Satria Data held by Ministry of Higher Education, Science, and Technology 2026
- ✔ Highest Achiever in Advanced Mathematics, Petra 5 Senior High School
- ✔ Highest Achiever in Informatics, Petra 5 Senior High School
- ✔ Surabaya representatives on Informatics National Science Olympiad (OSN) East Java level

Interest and Skills

Hard Skills: Algorithmic Design, Machine Learning, Deep Learning, Exploratory Data Analysis, Backend Development, Data Infrastructure, System Design
Soft Skills: Communication, Adaptability, Teamwork, Paper reading, Time management
Language Proficiency: Indonesia (*native*), English (*Professional Work*)
Interest: Research, *Artificial Intelligence, Computer Vision, Data Science*, *Generative Model*