

Contact

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Top Skills

BERT (Language Model)
PEFT/LoRA
PyTorch

Languages

Javanese (Native or Bilingual)
English (Professional Working)
Indonesian (Native or Bilingual)

Certifications

Offline Training Font-End Web Developer IDCamp x KADIN 2023
Google Cloud Computing Foundation
EF SET Score
Menjadi Google Cloud Engineer
Unsupervised Learning in Python

Danang Agung Restu Aji

NLP Research Engineer | Business Automation | 150% Discipline Sleman, Yogyakarta, Indonesia

Summary

Computer Science student specializing in IT administration and Cloud Computing, currently working as a freelance NLP research engineer in the govt research agency, passionate about developing automated solutions to enhance operational efficiency. Equipped with hands-on experience in backend development, hardware maintenance, technical support, infrastructure management, and cross-functional collaboration.

not interested in politics, prefer collaboration.

Experience

Research Project DPPM (Direktorat Penelitian dan Pengabdian Masyarakat)

NLP Research Engineer

August 2025 - Present (4 months)

Magelang Tengah, Central Java, Indonesia

Designed, developed and implemented an end-to-end NLP system using LoRA fine-tuned IndoT5 model for the prototype of national academic Text Simplification & Paraphrase System . Designed a multi-stage paraphrase generation pipeline integrating IndoT5, IndoBERT, and Sentence-BERT for readability improvement. Implemented automatic candidate reranking based on linguistic and semantic features (syntactic simplicity, word concreteness, cohesion). Added custom post-editing and reward-based optimization for selecting the most readable paraphrase per sentence. Achieved significant readability gains (Flesch +25 avg) across 500+ complex scientific sentences.

Google

Google Cloud Arcade Facilitator

July 2025 - October 2025 (4 months)

- guide learners through real-world use cases, troubleshoot implementation challenges, and foster collaborative skill-building with tools like BigQuery, Cloud Run, and Vertex AI.

- focusing on accessibility and impact, turning complex cloud concepts into enjoyable, inclusive learning journeys accelerating both individual growth and team adoption of cloud technologies.

Freelance

AI & IT Solution Specialist

December 2021 - August 2025 (3 years 9 months)

Yogyakarta, Indonesia

Provided both onsite and remote IT and also AI solutions, ensuring seamless operation of computer systems while also developing and deploying AI models, including NLP-based solutions. This role allowed me to combine hands-on technical expertise in hardware and software support with advanced skills in artificial intelligence and data-driven problem-solving.

Core Responsibilities

- Hardware & Infrastructure Maintenance

Installed, configured, and serviced desktops, laptops, printers, mobile devices, and peripheral equipment, ensuring optimal performance and longevity.

- Software & OS Management

Installed, updated, and configured software applications and operating systems, maintaining high security, reliability, and compatibility across environments.

- User & Client Support

Provided technical assistance to end-users and clients, resolving both IT-related and AI solution inquiries, while offering guidance on best practices.

- Preventive Maintenance & Optimization

Conducted system inspections, performance benchmarking, and model evaluation to identify issues before they impact operations or accuracy.

- AI & Model Development

Designed, trained, and tested natural language processing models for specific client use cases, integrating them into real-world applications.

Coding Camp powered by DBS Foundation

Coding Camp Facilitator (Intermediate Level)

August 2024 - September 2024 (2 months)

Provided mentorship and facilitation to educators, enabling them to comprehend course materials and complete assignments during a two-month intermediate-level coding camp. Delivered hands-on support and expert guidance to ensure participants successfully met all course requirements.

Key Topics Covered:

1. Building HTML Forms.
2. Layout techniques using CSS Grid.
3. Creating Web Components.
4. Using Package Managers for Web Applications.
5. Module Bundling techniques with Module Bundlers.
6. Handling Asynchronous JavaScript Requests.
7. Submission project: Developing a Notes App.
8. Integrating the Notes App with a RESTful API.

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka
Cloud Computing Cohort
February 2024 - July 2024 (6 months)
Indonesia

I was proud to be part of the Cloud Computing Cohort in the Bangkit Academy Program, a career readiness initiative led by Google, Tokopedia, Gojek, and Traveloka. During this intensive program, I specialized in mastering cloud computing using Google Cloud Platform (GCP), gaining hands-on experience in building scalable, secure, and efficient solutions.

The program equipped me with skills in managing cloud infrastructures, deploying applications, and optimizing workloads, aligning with industry best practices. Through this experience, I also collaborated on innovative projects that solidified my knowledge and prepared me to tackle real-world challenges in cloud computing.

PT. Lajuperdana Indah

General Administration

January 2019 - September 2021 (2 years 9 months)

Ogan Komering Ulu Timur, Sumatera Selatan, Indonesia

Worked directly under the Division Manager to oversee data input, analyze field data, and compile comprehensive summary reports. Held a specialized role in managing and supporting the Machinery, Transportation, and Heavy Equipment Teams.

Key Responsibilities:

General Administrative Tasks:

- Ensured operational efficiency by managing office supplies and resources.
- Prepared detailed meeting reports and schedules for Machinery, Transportation, and Heavy Equipment teams.
- Entered and maintained critical data within the SAP database to streamline organizational processes.

Machinery Administrative Tasks:

- Coordinated with the Workshop Division to schedule unit maintenance and optimize operational schedules.
- Collaborated with the Warehouse Division to manage Field Material Requests effectively.
- Monitored machine usage hours and analyzed fuel consumption data to improve efficiency and reduce costs.
- Prepared detailed reports for review by the Crop Production Manager and Vice General Manager.

Heavy Equipment and Transportation Administrative Tasks:

- Developed road maintenance maps to enhance logistics and improve planning outcomes.
- Evaluated the operational effectiveness of heavy equipment, including excavators, bulldozers, and road graders, to ensure peak performance.
- Analyzed fuel consumption across heavy equipment and transportation fleets to identify optimization opportunities.
- Delivered actionable insights and reports for strategic decision-making by the Vice General Manager.

Starline

Technical Support Staff

December 2015 - December 2018 (3 years 1 month)

Sleman, Yogyakarta, Indonesia

In this role, I was responsible for delivering comprehensive technical support, ensuring the seamless operation of computer systems by troubleshooting hardware and software issues. This position provided hands-on experience across a diverse range of computer hardware, software, and network components.

Core Responsibilities

- Hardware Maintenance: Installed, configured, and maintained computer hardware, including desktops, laptops, printers, and other peripheral devices to support smooth operations.
 - Software Installation: Managed the installation and updates of software applications and operating systems to maintain functionality, security, and reliability.
 - User Support: Provided end-user support by addressing technical inquiries, resolving issues, and offering guidance on best practices to enhance productivity.
 - On-Site Preventive Maintenance: Conducted regular maintenance checks on IT equipment, from inspection to benchmarking, to prevent potential issues and ensure optimal performance.
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Education

Universitas Terbuka

Bachelor of Arts - BA, Information System · (September 2021 - March 2026)