

# RESTU ANGGORO KASIH

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Mathematics graduate with a solid foundation in Data Science, Machine Learning, and AI implementation. Skilled in end-to-end data project management, including preprocessing, model development, hyperparameter optimization, and performance evaluation. Proficient in statistical modeling, algorithm design, and programming, with practical experience in traditional AI, deep learning, and Large Language Models for generative applications. Proficient in Python, SQL, and modern AI frameworks, with proven ability to integrate analytical insight and automation into practical, scalable solutions.

## WORK EXPERIENCE

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### PT Rakamin Kolektif Madani

Nov 2025 – Present

- Implemented LLM-based job description matching to map internal job descriptions against Mercer Job Architecture data for standardized role classification and benchmarking.
- Developed custom Google Apps Script automations for a client to streamline data processing and significantly improve workflow efficiency in Google Sheets.
- Built an AI-driven HR analytics dashboard using Streamlit and Supabase, integrating talent-matching logic and AI-generated job profiles.

### Freelance Data and IT

Jul 2025 – Nov 2025

Provide services independently via multiple platforms.

- Completed over 10 freelance projects independently and through various digital platforms.
- Responsible for building Machine Learning/Deep Learning models, performing data entry, data annotation, data management and scraping, developing websites, creating Roblox games, and academic projects.
- Communicated effectively with clients to ensure deliverables met client expectations.

### Research Assistance

May 2024 – Jul 2024

- Processed and structured research data from 3 provinces into comprehensive documents totaling over 3,000 pages.
- Standardized formatting and corrected content inconsistencies on 1,000+ pages to ensure accuracy and compliance with research guidelines.

### Media Staff (Internship) Grogol Village, Paliyan District, Gunung Kidul Regency

Jul 2023 – Aug 2023

Participated in conversion activities as part of the Student Organization Capacity Building Program (PPK Ormawa).

- Drafted 4 official reports of village activities and documented more than 3 events.
- Managed and adjusted the content of the village website on WordPress to match the new template and design.

## EDUCATION

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### YOGYAKARTA STATE UNIVERSITY

Sleman, IDN

Bachelor of Science; Major in Mathematics

2021 - 2025

- Cum Laude with Cumulative GPA: 3.64/4.00

## PROJECTS EXPERIENCE

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### AI Meeting Summary

- Built a multimodal AI pipeline using Whisper, Pyannote, and Wav2Vec for speech recognition, diarization, and emotion analysis.
- Implemented structured summarization and contextual Q&A using LLMs with fallback and RAG-based memory (ChromaDB + SQLite).
- Designed a real-time, asynchronous streaming architecture (FastAPI + Next.js) supporting multimodal audio-text processing with efficient API communication.

### Customer Segmentation Using Birch Clustering

- Segmented 2,000+ customers using BIRCH with optimal cluster validation (Silhouette 0.695; DBI 0.440).
- Identified 3 core behavioral segments to improve targeted marketing decisions.

### Tea Leaf Disease Classification (Undergraduate Thesis)

- Developed EfficientNet-based image classification model via transfer learning, achieving 98%+ accuracy across major evaluation metrics.
- Improved performance from 94% to 98% through hyperparameter tuning, data augmentation, and architectural adjustments.
- Processed 1,500+ images with preprocessing techniques to enhance feature extraction and generalization.

#### **Land Use Land Cover (LULC) Classification & Web Deployment (Internship Report)**

- Built LULC classification using Sentinel-2 imagery (GEE + CNN) with 90.31% accuracy and 85.49% Cohen's Kappa.
- Designed and deployed Flask and a React.js, improving accessibility and scalability for geospatial insights.
- Implemented automatic area calculation for 4 land cover types (Water, Building, Plantation Forest, Herbaceous).

## **ORGANIZATION EXPERIENCE**

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### **Engineering and Technology Club (INFINITE)**

2023

*Staff, Competition Division*

- Researched and monitored 15+ IT competitions, distributing relevant information to members.
- Managed an archive of 25+ competition documents including proposals and supporting materials.

### **Student Executive Board**

2023

*Staff, Research, Data, and Digital Products*

- Analyzed and visualized 10+ survey datasets using Excel or Python to support strategic decision-making.
- Designed and produced over 10 informative infographics based on data analysis results.

### **Mathematics Student Association**

2022

*Staff, IT Division*

- Maintained hardware on a rotating schedule and installed 30+ software/OS applications for members.
- Produced 11 multimedia publications on technology topics in collaboration with the communication team.

## **AWARDS**

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- **3rd Place** – LIKMI, Applied Technology Business Category, *Yogyakarta State University* 2023
- **Finalist** – TrackAML Hackathon *PPATK* 2023
- **Finalist** – Abdidaya Ormawa, PPK Ormawa, Ministry of Education, Culture, Research, and Technology 2023

## **SKILLS**

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### **Programming**

Python, SQL, R, MATLAB, JavaScript, TypeScript

### **Machine Learning & Deep Learning**

Tensorflow, Pytorch, Scikit-learn, Computer Vision, Model Evaluation

### **Generative & Speech AI**

Large Language Models, RAG, Prompt Engineering, Vector Databases, Whisper, Wav2Vec, Speech Recognition

### **Data Engineering**

Scraping, Flask API, RESTful API, Docker, GitHub, Git

### **Cloud & Tools**

AWS, Google Earth Engine, Supabase, Hugging Face, Streamlit, Flutter (Mobile AI Integration)

### **Data Visualization**

Power BI, Google Looker Studio, Matplotlib, Seaborn, Plotly

### **Web Development**

React.js, Next.js, Node.js, Tailwind CSS, HTML, CSS

### **Languages**

Indonesian (Native), English