

DANIEL RIZAL ALONSO

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Mathematics undergraduate with experience in data analysis, financial reporting, and applied economic statistics, including digital GDP measurement and AI-based speech synthesis for automated digital content production.

Work Experiences

Central Agency of Statistics - Jakarta, Indonesia

Aug 2025 - Dec 2025

Internship | Data Analyst

Badan Pusat Statistik (BPS) is Indonesia's national statistics agency responsible for collecting, analyzing, and providing official data to support government policy-making and national development planning.

- Processed an estimated 800 NFC and 70 FC per quarter using IDX quarterly financial statements (2022–2025 Q1–Q4) performing data conversion and pivot-based restructuring to produce analysis-ready reports.
- Conducted Digital GDP Indonesian estimation using the ADB digital economy framework aligned with national accounts (SNA), identifying growth from 4.13% (2016) to 5.12% (2020) to support analysis of digital economy development.
- Developed 1 AI-based e-learning module utilizing voice cloning and AI lip-sync, reducing audio production time by 60–70% compared to manual narration and lowering production costs.
- Conducted data mapping and aggregation for 35 provinces using multi-year government financial datasets (2015–2019), enabling province-level trend analysis of budget allocation, realization, and progress indicators.

State University of Surabaya - Surabaya, Indonesia

Sep 2024 - Nov 2024

Part Time | Differential Calculus Theory Teaching Assistant

A teaching assistant who assists the main lecturer in the teaching process of the Differential Calculus course, particularly in the theoretical aspects. Their primary responsibilities include supporting teaching activities by explaining course material, facilitating discussions, and guiding students to better understand fundamental calculus concepts such as limits, derivatives, and their applications.

- Assisted in delivering theoretical and applied calculus instruction to 36 undergraduate students, focusing on limits, derivatives, and their applications.
- Utilized GeoGebra to create 10+ analytical visualizations of derivative functions, enhancing understanding through graph-based data interpretation.
- Developed and reviewed structured problem sets and solution analyses, strengthening students' ability to interpret mathematical results in applied contexts.

Education Level

State University of Surabaya - Surabaya, Indonesia

Aug 2023

Bachelor of Mathematics, 3.91/4.00

- Achieved high semester GPA at the study program level for three academic semesters.
- Selected for the International Class Program through a competitive selection within the Mathematics Department.

State Senior High School 13 of Surabaya - Surabaya, Indonesia

Jul 2020 - Jul 2023

Senior High School, Natural Science

Organisational Experience

UNESA Protestant Christian Spirituality Unit - Surabaya, Indonesia

Mar 2024 - Jan 2025

Public Relation

A section of the Student Activity Unit that organizes spiritual activities such as prayer meetings for all Christian students at UNESA.

- Coordinated communication and promotional activities for organization-wide events involving 100 committee members, ensuring consistent information flow across divisions.
- Established and managed partnerships with 30 promoters, ensuring effective dissemination of event information and increased participant engagement.
- Supported the organization of several large-scale spiritual and student activities, ensuring full attendance and coordination of administrators during official meetings.

Skills, Achievements & Projects

- Achievements** (2026): Fundamentals of financial management and basic financial analysis.
- Achievements** (2026): Cloud Essentials & Cloud Practitioner Essentials (Assessment-based), covering AWS fundamentals, core services, security, and pricing.

- **Achievements** (2025): Guest Speaker Virtual lecture on matrix based digital economy analysis Universitas Negeri Surabaya and Statistics Indonesia
- **Achievements** (2025): Received a recommendation to participate in a competition at MaG-D Bandung Institute of Technology.
- **Projects** (2024): Built an automated online booking system using data structures and search/sorting algorithms, reducing manual processing time by ~60%, queue congestion by ~45%, and improving data retrieval efficiency by ~50% through system automation.
- **Projects** (2024): Developed an interactive 3D tourism map of Surabaya by processing location-based data from 8 tourist attractions. Applied spatial categorization and clustering to visualize tourism distribution patterns, supporting data-informed urban and tourism planning.
- **Projects** (2024): Conducted a data-driven analysis of motorcycle preferences in the UNESA area using 300 survey responses, applying AHP multi-criteria decision analysis. Produced a ranked top-5 motorcycle preference model, transforming subjective survey data into quantifiable insights for evidence-based market analysis.
- **Hard Skills** (2026): Python, SQL, Microsoft Excel, RStudio, After Effects, AI Tools(voice cloning, lipsync AI)
- **Soft Skills** (2026): Public Speaking, Problem Solving, Creative Thinking