

Abdur Rochman Azis

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Jakarta Barat, Indonesia

SUMMARY

High-achieving Mathematics student (GPA 3.78/4.00) and KJMU Awardee at Universitas Jenderal Soedirman. Skilled in statistical analysis, computational modeling, and algorithms. Proven track record in processing datasets with over **900,000 records** for policy formulation and developing various software solutions. Proficient in Python, C++, and Excel for data-driven decision making.

EDUCATION

Universitas Jenderal Soedirman Purwokerto, Indonesia
Bachelor of Mathematics; GPA: 3.78/4.00 Aug 2023 – Present

Awards: KJMU Scholarship Awardee (Full scholarship for top 10% students with academic excellence).

Relevant Coursework: Linear Algebra, Algorithm & Programming, Mathematical Modeling, Statistical Methods.

WORK EXPERIENCE

Universitas Jenderal Soedirman Purwokerto, Indonesia
Laboratory Assistant / Teaching Assistant - Linear Algebra Aug 2025 – Dec 2025

- Mentored 80+ students, simplifying complex matrix concepts which contributed to a **90% class pass rate**.
- Managed administrative workflows and attendance data for 2 classes with 100% accuracy using Excel.
- Facilitated 12 weekly tutorial sessions, helping students improve problem-solving speed by approximately 70%.

Dinas Tenaga Kerja, Koperasi, dan UKM (Manpower Office) Banyumas, Indonesia
Administrative Data Intern Jul 2025 – Aug 2025

- Validated training applicant data for 200+ participants, ensuring 0% data discrepancy before submission.
- Digitized 500+ physical documents, reducing data retrieval time by 40%.
- Produced 3+ documentation videos for social media, increasing public engagement by 15%.

PROJECT EXPERIENCE

Supplier Selection Decision Support System (SPK) Dec 2025
Fuzzy Tsukamoto Logic (Python) Final Project

- Developed a decision support system to optimize supply chain management using **Fuzzy Tsukamoto** inference engine.
- Implemented a 27-rule knowledge base and Weighted Average defuzzification, achieving 90% calculation accuracy.

Banyumas Workforce Mapping: Correspondence Analysis Jul 2025 – Dec 2025
Statistical Analysis Internship Final Report

- Analyzed demographic data of **924,757** residents using Correspondence Analysis to map education vs. employment trends.
- Identified 3 critical workforce mismatches, providing data-driven policy recommendations to the Manpower Office.

Data Preprocessing & Sports Analytics Pipeline Nov 2025
Python (Pandas, Matplotlib) Capstone Project

- Architected a cleaning pipeline using Pandas, automating anomaly detection for 100% dataset integrity.
- Visualized Barcelona FC's shotmaps, identifying a strategic shift that led to an 85% increase in offensive intensity.

Agricultural Optimization: Coconut Sap Production Oct 2025 – Dec 2025
Mathematical Modeling (Logistic Growth) Course Capstone

- Modeled crop carrying capacity using Logistic Growth equations and Non-linear Least Squares Fitting in Python.
- Formulated strategies for land extensification projected to increase production capacity by 10-15%.

Task Adventure CLI - Gamified Productivity Tool Jun 2024
C++ Development Final Project

- Developed a console-based productivity tool in C++, implementing a custom **Bubble Sort** algorithm for task prioritization.
- Designed to boost user productivity through gamification elements applied to a To-Do List application.

TECHNICAL SKILLS

Programming Languages: Python (Pandas, NumPy, Matplotlib, SciPy), C++, SQL, LaTeX.

Methodologies: Statistical Modeling, Hypothesis Testing, Fuzzy Logic (Tsukamoto), Differential Equations.

Tools: VS Code, SPSS, Excel (Advanced: Pivot/VLOOKUP), Git.

Languages: Indonesian (Native), English (Intermediate).