ABDUR ROCHMAN AZIS

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PROFESSIONAL SUMMARY

High-achieving Mathematics student (3.78/4.00 GPA) and KJMU Awardee at Universitas Jenderal Soedirman. Skilled in statistical analysis, computational modeling, and algorithms. Proven track record in processing **900k+ datasets** for government policy formulation and developing **5+ 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*
- **Awardee of Kartu Jakarta Mahasiswa Unggul (KJMU):** Received full scholarship funding awarded to top students with academic excellence.
- **Selected Teaching Assistant:** Chosen to mentor Linear Algebra due to strong subject mastery.

WORK EXPERIENCE

Laboratory Assistant - Linear Algebra   Universitas Jenderal Soedirman
Teaching Assistant   *Aug 2025 – Dec 2025*
- Mentored **80+ students**, simplifying complex matrix concepts resulting in 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 **70%**.

Administrative Data Intern   Dinas Tenaga Kerja, Koperasi, dan UKM
Internship   *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

Banyumas Workforce Mapping (Big Data Analysis)   *Internship 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.

Sports Analytics Pipeline (Python/Data Science)   *Technology Training 2025*
- Architected a reusable 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.

Supplier Selection Decision System (Fuzzy Logic)   *Kapita Selekta Komputasi*
- **Built** a Fuzzy Tsukamoto inference engine in **Python** with a **27-rule knowledge base** to rank suppliers based on multi-criteria inputs.
- Implemented manual Weighted Average defuzzification, achieving **90% calculation accuracy** for ranking.

Agricultural Optimization: Modeling Coconut Sap Production   *Mathematical Modeling*
- **Constructed** a predictive model 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 (C++)   *Algorithm Final Project*
- **Engineered** a console-based productivity tool using **C++**, implementing a custom **Bubble Sort** algorithm for task prioritization.

TECHNICAL SKILLS

- **Programming:** Python (Pandas, NumPy, Matplotlib, SciPy), C++ (Algorithms), LaTeX.
- **Data & Tools:** Statistical Modeling, Hypothesis Testing, Fuzzy Logic, Excel (Pivot/VLOOKUP), SPSS, VS Code.
- **Languages:** Indonesian (Native), English (Intermediate).