

# NAZRIL RAVI PRATAMA

UNESA DATA SCIENCE STUDENTS  
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## SUMMARY

I am a Data Science student at Surabaya State University, experienced in data analysis and a Data Mining competition winner. I serve as a Teaching Assistant for Matrix Algebra, strengthening my mathematical foundation and analytical thinking. As a core member of SADA Community, I regularly deliver Data Science workshops and training, mentoring peers in practical applications and analytical skills. Actively involved in academic competitions and student organizations, I am passionate about innovation, leadership, and data-driven solutions, and committed to becoming an adaptive and impactful data scientist.

## EXPERIENCE

### TEACHING ASSISTANT Artificial Intelligence - UNESA (Sep 2025 - Nov 2025)

- Served as Teaching Assistant for Matrix Algebra in the Artificial Intelligence program, assisting lectures, preparing materials, and guiding students in exercises*

### PRIVATE TUTOR (August 2024 - June 2025)

Freelance (UTBK & Academic Subjects)

- Tutored SMP, SMA, and first-year university students in Math, Science, and UTKB, focusing on concept mastery and problem-solving.*

### STUDENT COUNCIL LEADERSHIP SMPN 1 Sedati & SMA Antartika Sidoarjo (2018 - 2023)

- Held progressive leadership roles in the Student Council from 2018 to 2023, including Secretary, President, Vice President II, and Senior Advisor. Responsibilities ranged from documenting and organizing meetings, leading school events and academic competitions, supervising divisions and coordinating cross-department programs, to mentoring future council leaders and guiding the design of impactful student initiatives.*

### HEAD OF DATA MINING DIVISION, 2025 DATA MINING ACTION COMPETITION (2025)

Data Science - UNESA

- Led the Data Mining division, overseeing team tasks, strategy, and execution for competition challenges.*
- Coordinated workflows and guided team members to achieve successful competition outcomes.*

## EDUCATION

### Antartika High School Sidoarjo (2021-2024)

Major in Mathematics and Natural Sciences

### State University of Surabaya (2024-2028)

Bachelor of Data Science Current GPA: 3.75 / 4.00 (as of Semester 2)

## ACHIEVEMENTS

- Finalist GEMASTIK XVIII Data Mining Division By Kemendiktisaintek (Dit. Belmawa) (2025)*
- 3rd Place National Data Mining Competition by Asosiasi MIPA LPTK Indonesia (2025)*
- 2nd Runner-Up International Paper Competition INTERGALACTIC by BEM FMIPA Unesa (2025)*
- 2nd Place - The International Brain Challenge Competition - Telkom University (2025)*
- Gold Medalist - National Science Competition PUSKASNAS (2025)*
- Gold Medalist - Mathematics Ramadhan Science Competition Indonesia (RSCI) (2025)*
- 1st Place - Smart Competition SADAFETS HMJ Sains Data Unesa (2025)*
- Finalist - The International Brain Challenge Competition - Telkom University (2024)*
- 2nd Place - Antartika High School Literacy Ambassador Competition (2023)*
- 3rd Place - National Smart Competition - Semen Indonesia International University (2023)*
- Finalist - GLOBAL HOUSE National MIPA Olympiad (2023)*
- Representative - OSN-K Mathematics, Antartika High School (2023)*
- Semifinalist - 15th Indonesian Realistic Mathematics Competition (2020)*

## PROJECTS

- **Dec 2025 - Jan 2026:** Developed a YOLOv11-based bone fracture detection system with a web dashboard for clinical decision support using Python, Deep Learning, Data Analysis, and Web Development.
- **Nov 2025 - Dec 2025:** Built an AI system for multiclass stroke detection and classification on Turkish CT brain images using Python, ML models (SVM, KNN, XGBoost, Decision Tree), Feature Extraction (HOG, LBP, Color Histogram), PCA, and Data Analysis.
- **Oct 2025 - Dec 2025:** Implemented a hybrid cardiac signal processing project for arrhythmia detection using Python, DSP techniques (PCG & ECG, FFT, Wavelet, STFT, CWT), Feature Engineering (HOG, LBP, Intensity Histograms), PCA, SVM, Streamlit Web Dashboard, and Data Analysis.
- **Oct 2025 - Dec 2025:** Integrated multi-source educational data, social media texts, and PDF documents for analysis of Indonesia's education using Python, Data Wrangling, NLP (Indonesian Stopwords, Sastrawi Stemming), PDF Parsing (PyMuPDF, tabula-py), Regression Modeling, and Sentiment Analysis.
- **Oct 2025 - Dec 2025:** Developed POLINTEL+, a public opinion monitoring system for Indonesian government policies using Python, NLP (RoBERTa), ML models (Random Forest, XGBoost), Topic Modeling (LDA), Time-Series Analysis, Clustering (K-Means), and Data Analysis.
- **Sep 2025 - Nov 2025:** Created a multidimensional food security early warning system for Indonesia using Python, NLP (RoBERTa), Spatial Clustering (Gaussian Mixture Model), Forecasting (XGBoost), Computer Vision (CNN), Web Dashboard, Blockchain Traceability, and Data Science.
- **Sep 2025:** Conducted churn analysis in an e-commerce setting using Python, LightGBM, Data Analysis, Data Modeling, Visualization, Databases, and Business Strategy to provide actionable insights.
- **Sep 2025:** Designed and implemented a normalized relational database schema from UNF to BCNF using Database Design, ERD, SQL, Relational Schema, and Data Integrity principles.
- **Aug 2025:** Developed an East Java poverty reduction dashboard using Tableau, Data Visualization, Spatial Analysis, Forecasting, Socio-Economic Indicators, and Dashboard Analytics for policy insights.
- **May - Jun 2025:** Built a predictive model for MSME (UMKM) profit using Python, XGBoost, Optuna, Data Analysis, Feature Engineering, Segmentation, Google Colab, pandas, seaborn, scikit-learn, and imbalanced-learn.
- **Jan 2025:** Developed a data science dashboard visualizing global excess deaths from COVID-19 (2020-2022) using Python (Pandas, Seaborn, Matplotlib), Tableau, Excel, and Data Analysis.
- **Jan 2025:** Created TAMZR, an online homework assistance and tutoring website using Python (Flask), HTML, CSS, Tableau, Web Development, and Data Visualization.

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## SOFT SKILLS

Strong in leadership, mentoring, communication (English & Indonesian), problem-solving, adaptability, collaboration, project management, and analytical thinking, developed through student organizations, teaching assistantship, workshops, and national-level competitions.

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## HARD SKILLS

Strong foundation in Data Science, Data Analysis, Data Entry, Machine Learning, Artificial Intelligence, and Computer Vision, with hands-on experience using Python (pandas, NumPy, scikit-learn, seaborn, matplotlib), SQL (PostgreSQL, MySQL), Power BI, Tableau, Streamlit, and Excel. Proficient in dashboard development, data visualization, NLP, database design, and web-based analytics using Streamlit, Flask, HTML/CSS, as well as Microsoft Office and Canva to support reporting and communication.