

Rehana Putri Salsabilla

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SUMMARY

I am a 2022 undergraduate student in Information Technology at Sepuluh Nopember Institute of Technology (ITS), born in Tulungagung on September 25, 2003. With a strong interest and certifications in data, I am developing skills in analysis, processing, and visualization to pursue a career as a Data Analyst. I have experience in committees, organizations, and community service, as well as strong managerial, communication, and public speaking abilities. I enjoy teamwork, networking, and tackling challenges that drive growth.

EDUCATION

2022 - Now Bachelor's Degree at **Institut Teknologi Sepuluh Nopember** (GPA: 3.67/4.00)
2019 - 2022 High School Science Major at **SMAN 1 Kauman Tulungagung**

WORK EXPERIENCE

Dinas Komunikasi dan Informatika - Kabupaten Madiun Jan 2025 – Mar 2025
Internship Full Stack Developer

- Developing websites using Vue.js.
- Using Git and GitHub/GitLab for version control and team collaboration.
- Designing database schemas using MySQL.
- Implementing CRUD (Create, Read, Update, Delete) operations on backend systems.
- Implementing designs from UI/UX designers using Figma.

Institut Teknologi Sepuluh Nopember - Department of Information Technology Feb 2024 – Jul 2024
Assistant Lecturer of Architecture Enterprise

- Assisted lecturers in teaching concepts, design, and implementation of information systems architecture within organizations.
- Prepared supporting materials and guided students in understanding case studies.
- Provided technical assistance, assignment guidance, and grading support.
- Gained skills in communication, classroom management, and enterprise-scale systems planning and integration.

ACADEMIC PROJECTS

Project: Online Retail Analysis and Forecasting

- Analyzed retail data to identify key revenue factors.
- Built forecasting models for future sales trends.
- Visualized insights on products and customers.

Project: Animals Image Classification

- Built a CNN model to classify animal images.
- Performed EDA to analyze dataset and class balance.
- Applied data augmentation and preprocessing.
- Used `EfficientNetB0` with fine-tuning.
- Trained and evaluated model accuracy and loss.

Final Project: Big Data Lakehouse – Real-Time Customer Clustering

- Built a real-time clustering pipeline using Kafka and PySpark.
- Used MinIO for data lake storage and Streamlit for dashboard.
- Designed producer-consumer modules for data streaming.
- Implemented scalable processing for customer segmentation.

Project: Emotion-Classification – Sentiment and Emotion Detection

- Built ML models to detect emotions from text reviews.
- Applied text preprocessing and feature extraction (TF-IDF, Word2Vec).
- Compared SVM, Random Forest, and LSTM performance.
- Evaluated models using accuracy and F1-score.

Project: Spam Email Classification Using PySpark

- Built ML model to classify emails as spam or not spam.
- Applied text preprocessing and TF-IDF feature extraction.
- Used Logistic Regression and Naive Bayes for classification.
- Evaluated model with accuracy and F1-score metrics.

Final Project: PalestineCare – Charity Database Management System

- Designed a relational database for charity management.
- Built linked tables for donors, volunteers, and donations.
- Applied foreign keys to ensure data consistency.
- Created SQL scripts for reporting and transactions.

Capstone Project: Robot IT – Smart Guide for IT Department Visitors

- Developed Android-based guide app for IT visitors.
- Integrated Firebase and Picovoice wake word (“Hello Vira”).
- Built chatbot for IT-related queries with voice interaction.
- Added character selection and multi-menu features.

Internship Project: Website Development for Dinas Kominfo Kota Madiun

- Developed an informational website for Dinas Kominfo Kota Madiun.
- Designed responsive UI and implemented key service features.
- Integrated content management for public information and announcements.

RELEVANT COURSEWORK

- Data Mining and Machine Learning
- Database Systems and SQL Programming
- Big Data and Data Lakehouse
- Cloud Computing
- Statistical Analysis and Data Visualization
- Business Intelligence and Forecasting
- Data Structures and Algorithms
- Web and Mobile Application Development
- Database Systems

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript
Frontend Tools: HTML, CSS, Vue.js, React.js, Next.js, Streamlit
Data & ML Tools: Pandas, NumPy, Scikit-Learn, TensorFlow, Keras, Apache Spark (PySpark), Kafka, MinIO
Developer Tools: Git, GitHub, Docker, Vs Code, Jupyter Notebook, Excel, Google Sheets

PERSONAL ABILITIES

Personality: ESFJ-A

- Communication Skills
- Adaptability
- Collaboration & Teamwork
- Problem Solving
- Leadership

COURSES, TRAININGS, AND ACHIEVEMENTS

- **Hard Skills Software Development** (2022): Managing Websites for Software Developers ✓
- **IT Support Google by Google and Coursera** (2023): IT Security, System Administration, IT Infrastructure Services, Technical Support Fundamentals, Computer Networking, Operating Systems ✓
- **Soft Skills with INCO Academy Work in Tech** (2023): Soft Skills on Job Readiness Training ✓
- **Mini Bootcamp Introduction to Data Analytics - DQLab** (2025): Study Case Bootcamp Data Analyst with SQL & Python ✓
- **Mini Bootcamp Introduction to Data Analytics - DQLab** (2025): Study Case Bootcamp Machine Learning & AI for Beginner ✓
- **Mini Bootcamp Introduction to Data Analytics - DQLab** (2025): Study Case Bootcamp Data Analyst with Excel ✓
- **Short Class Data Analysis by MySkill** (2025): Data Science Introduction ✓
- **Certified Online Course offered by RevoU** (2025): Intro to Data Analyst ✓
- **Free Class Data Analyst - Coding Studio** (2025): FREE CLASS - Intro to Data Analyst ✓

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

Himpunan Mahasiswa Teknologi Informasi (HMIT 2025/2026) - ITS, Surabaya
Internal General Secretary

Feb 2025 – Present

- Revised and approved proposals from Internal Department Secretary.
- Submitted proposals to Student Affairs Office, IT Department Secretary, and Head of IT Department.

ARA 6.0 - Surabaya, Jawa Timur, Indonesia
General Secretary 1 (BPH)

Nov 2024 – May 2025

- Compiled and managed correspondence, minutes, and archives.
- Maintained orderly internal and external communications.

OKKBK 2024 - Surabaya, Jawa Timur, Indonesia
Head of Events

Jul 2024

- Led planning, implementation, and evaluation of events.
- Coordinated all divisions, assigned tasks, and monitored progress.
- Made strategic decisions and maintained relations with sponsors and speakers.

Himpunan Mahasiswa Teknologi Informasi (HMIT 2024/2025) - ITS
Secretary of the Department of Home Affairs

Mar 2024 – Jan 2025

- Prepared proposals and correspondence for work programs.
- Took minutes of departmental meetings.
- Submitted proposals and budgets to Association Secretary and IT Department.

ARA 5.0 - Surabaya, Jawa Timur, Indonesia
Head of Liaison Officer

Oct 2023 – Jun 2024

- Led and managed liaison officer division.
- Coordinated communication and tasks with staff.
- Trained staff to communicate with external stakeholders.

Workshop Mandiri Digital Academy - Surabaya, Jawa Timur, Indonesia
Event Staff (Moderator)

Sep 2023

- Moderated 3 speakers.
- Assisted event staff during execution.

CYSEA (Cyber Security Academy) - Surabaya, Jawa Timur, Indonesia
Staff of Public Relation

Aug 2023

- Liaised between committee and speakers.
- Ensured speakers' needs were met.
- Accompanied speakers during event.

International Workshop with NUS - Surabaya, Jawa Timur, Indonesia

Nov 2022

Staff of Liaison Officer

- Accompanied speakers from NUS.
- Guided workshop participants.

IT Ambassador 2022 - Surabaya, Jawa Timur, Indonesia

Jul 2022 – Jul 2023

Volunteer

- Promoted the ITS Information Technology Department via social media.
- Introduced the Information Technology Department to new students.

PUBLICATIONS

Nurhaliza, Mutiara et al. (Dec. 2024). “Analisis Perbandingan Kinerja Algoritma Pembelajaran Mesin dalam Proses Triase Insiden Keamanan Siber”. In: *Madani: Jurnal Ilmiah Multidisiplin* 2.11, pp. 439–449. DOI: [10.5281/zenodo.14326340](https://doi.org/10.5281/zenodo.14326340). URL: <https://doi.org/10.5281/zenodo.14326340>.

Purba, Etha Felisya Br et al. (2024). “Mengoptimalkan Deteksi Intrusi Jaringan: Perbandingan SVM dan KNN Menggunakan Dataset KDD Cup 99”. In: *Madani: Jurnal Ilmiah Multidisiplin* 2.7, pp. 276–283. DOI: [10.5281/zenodo.12562473](https://doi.org/10.5281/zenodo.12562473). URL: <https://doi.org/10.5281/zenodo.12562473>.