

# Rehana Putri Salsabilla

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## SUMMARY

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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

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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** (Grades)

## WORK EXPERIENCE

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**Dinas Komunikasi dan Informatika - Kabupaten Madiun**  
*Internship Full Stack Developer*

*Jan 2025 – Mar 2025*

- 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**  
*Assistant Lecturer of Architecture Enterprise*

*Feb 2024 – Jul 2024*

- 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

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

- Built Android-based guide app for IT Department visitors.
- Integrated Firebase Realtime Database and Picovoice wake word (“Hello Vira”).
- Developed chatbot interaction limited to IT-related questions.
- Implemented voice interaction, character selection, and multi-menu features.

- Tested and deployed app via Android Studio.

### **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.

### **Final Project: PalestineCare – Charity Database Management System**

- Designed and implemented a relational database for charity donation management.
- Built multiple interconnected tables for donors, volunteers, employees, and donation tracking.
- Applied foreign key constraints to maintain data consistency and relationships.
- Developed SQL scripts for data storage, reporting, and transaction management.

### **Project: Online Retail Analysis and Forecasting**

- Analyzed online retail transaction data to identify key revenue drivers and customer patterns.
- Implemented forecasting models to predict future sales trends and customer demand.
- Visualized insights on revenue, product performance, and customer segmentation.
- Provided data-driven recommendations for marketing and business strategy.

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

- Built a real-time data streaming pipeline using Kafka and PySpark ML for customer clustering.
- Integrated MinIO as a data lake storage and Streamlit for dashboard visualization.
- Designed and deployed producer-consumer modules for continuous data ingestion.
- Implemented scalable data processing for efficient and adaptive customer segmentation.

## **RELEVANT COURSEWORK**

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| <ul style="list-style-type: none"> <li>• Data Mining and Machine Learning</li> <li>• Database Systems and SQL Programming</li> <li>• Big Data and Data Lakehouse</li> <li>• Cloud Computing</li> <li>• Statistical Analysis and Data Visualization</li> </ul> | <ul style="list-style-type: none"> <li>• Business Intelligence and Forecasting</li> <li>• Data Structures and Algorithms</li> <li>• Web and Mobile Application Development</li> <li>• Database Systems</li> </ul> |
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## **TECHNICAL SKILLS**

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**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

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### Personality: ESFJ-A

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

## COURSES, TRAININGS, AND ACHIEVEMENTS

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- **Hard Skills Software Development** (2022): Managing Websites for Software Developers 
- **Achievements** (2022): Liga PKM ITS 
- **Writing Training, Spiritual and National Training Activities** (2022): Spiritual and National Training for New ITS Students 
- **Orientasi Keprofesian dan Kompetensi Berbasis Kurikulum Departemen Teknologi Informasi ITS** (2022): OKKBK 2022 Participants 
- **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 
- **Webinars Attended** (2023): Successful Career Planning for 8 Roles 
- **Latihan Keterampilan Mahasiswa Wirausaha Tingkat Dasar (LKMW-TD)** (2023): Entrepreneurship Training 
- **Pelatihan Karya Tulis Ilmiah Tingkat Dasar (PKTI-TD)** (2023): Writing Training 
- **LKMM-PRA-TD** (2023): Organizational Skills and Management 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

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**Mosque Youth - Kauman, Tulungagung, Jawa Timur, Indonesia**  
*Public Relations Division Staff*

*Aug 2019 – May 2022*

- Served as liaison with third parties and the public.

- Assisted with administration.
- Acted as liaison with external parties.

**Inclenation (Ospek Fakultas) - Surabaya, Jawa Timur, Indonesia**  
*Staff of Mentor*

*Aug 2022*

- Accompanied small groups of new students during the event.
- Ensured completeness and attendance of new students.
- Built bonding with new students.

**IT Ambassador 2022 - Surabaya, Jawa Timur, Indonesia**  
*Volunteer*

*Jul 2022 – Jul 2023*

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

**International Workshop with NUS - Surabaya, Jawa Timur, Indonesia**

*Nov 2022*

*Staff of Liaison Officer*

- Accompanied speakers from NUS.
- Guided workshop participants.

**Ini Lho ITS (ILITS) Forda Tulungagung - Tulungagung, Jawa Timur, Indonesia**

*Nov 2022 – Jan 2023*

*Staff of Public Relations*

- Served as liaison for Olympiad participants and schools for promotion.
- Acted as designated school representative.
- Spoke during school visits (high schools/vocational schools).

**Event A Renewal Agent (ARA) 4.0 - Surabaya, Jawa Timur, Indonesia**

*Oct 2022 – Jan 2023*

*Staff of Liaison Officer*

- Liaised with Olympiad participants and schools for promotion.
- Represented schools in communication.
- Served as speaker during school visits.

**Expo Campus SMAN 1 Kauman - Tulungagung, Jawa Timur, Indonesia**

*Jan 2023*

*Staff of Public Relations*

- Contact person for visitors and campus units during event.

**Formasta Mengabdi 7.0 - Tulungagung, Jawa Timur, Indonesia**

*Nov 2022 – Jan 2023*

*Public Relations and Licensing Staff*

- Liaised with community representatives to ensure success of activities.
- Secured permits from hamlet to sub-district level.

**OKKBK 2023 - Surabaya, Jawa Timur, Indonesia**

*Aug 2023*

*Staff of Event*

- Created and delivered assignments.
- Designed awarding sessions.

**CYSEA (Cyber Security Academy) - Surabaya, Jawa Timur, Indonesia**

*Aug 2023*

*Staff of Public Relation*

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

**Iris Robotic Course and Competition (IRC 2023) - Surabaya, Jawa Timur, Indonesia**

*Aug 2023*

*Staff of Liaison Officer*

- Acted as liaison between participants and committee.
- Conducted roadshows at schools to recruit participants.
- Accompanied participants during competition.

**Workshop Mandiri Digital Academy - Surabaya, Jawa Timur, Indonesia**

*Sep 2023*

*Event Staff (Moderator)*

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

**Wisuda Teknologi Informasi ke-128 - Surabaya, Jawa Timur, Indonesia**

*Sep 2023*

*Event Staff (MC)*

- Led the event as Master of Ceremony.
- Assisted in preparing technical guidelines and event sequence.

**Diesnatalis ITS ke-63 - Surabaya, Jawa Timur, Indonesia**

*Sep 2023 – Nov 2023*

*Staff of Liaison Officer*

- Liaised between committee and participants.
- Served as LO for Tennis Field branch.
- Accompanied participants during matches.

**Himpunan Mahasiswa Teknologi Informasi (HMIT 2024/2025) - ITS**

*Mar 2024 – Jan 2025*

*Secretary of the Department of Home Affairs*

- 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**

*Oct 2023 – Jun 2024*

*Head of Liaison Officer*

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

**OKKBK 2024 - Surabaya, Jawa Timur, Indonesia**

*Jul 2024*

*Head of Events*

- 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 2025/2026) -  
ITS, Surabaya**

*Feb 2025 – Present*

*Association Secretary*

- 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**

*Nov 2024 – May 2025*

*Secretary*

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

## PUBLICATIONS

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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>.