

CLARA VALENTINA

Surabaya, Jawa Timur

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Education

Sepuluh Nopember Institute of Technology

Undergraduate Student in Information Technology

Aug. 2022 – Now

Surabaya, Jawa Timur

Relevant Coursework

- Data Structures and Object-Oriented Programming
- Database Systems
- Introduction to Algorithms and Programming
- Web Programming
- Cloud Computing
- Big Data and Data Lakehouse
- Artificial Intelligence and Machine Learning
- Mobile Application Development

Academic Projects

Dashboard Admin – Employee Management System | *React, React Router DOM, Tailwind CSS, Vite*

2025

- Built a responsive admin dashboard with user authentication and CRUD operations for employee records.
- Implemented search, pagination, and profile editing with dark/light theme toggle.
- Styled using Tailwind CSS and optimized performance using Vite and ESLint.

Berita Kini – News Aggregator | *React, Axios, Tailwind CSS, React Router DOM*

2025

- Developed a news aggregator web app displaying articles from various Indonesian sources.
- Enabled filtering by category/source, and built recommendation logic for similar articles.
- Used Axios for fetching data and applied modern UI design using Tailwind CSS.

Real-Time Property Recommendation System for Melbourne | *Python, Apache Kafka, MinIO, Docker*

2024

- Developed a real-time property recommendation system for the city of Melbourne.
- Built an interactive dashboard to analyze sales trends and customer behavior using Python.
- Integrated data streaming and storage solutions using Apache Kafka and MinIO, deployed via Docker.

Customer Review Emotion Classification | *Python, Pandas, TensorFlow, Sastrawi, scikit-learn*

2024

- Implemented emotion classification for customer reviews using deep learning models.
- Processed textual data in Bahasa Indonesia using Sastrawi for better model accuracy.
- Trained models using TensorFlow and evaluated them using scikit-learn metrics.

Biomedical Cancer Publication Classifier | *Python, PySpark, Pandas, TensorFlow*

2024

- Built a machine learning pipeline to classify biomedical text publications into specific cancer types.
- Leveraged Apache Spark (PySpark) for distributed processing of large-scale biomedical data.
- Applied NLP techniques and TensorFlow models to extract and classify relevant information.

Technical Skills

Languages: JavaScript, HTML5, CSS3, Python, C++, SQL

Frontend Tools: React.js, Tailwind CSS, Next.js, Nuxt.js, Streamlit

Data & ML Tools: Pandas, scikit-learn, TensorFlow, Apache Spark (PySpark), Kafka, MinIO, Docker

Developer Tools: Git, GitHub, GitLab, VS Code, Excel, Google Sheets

Leadership / Extracurricular

IT Journalistic Club

July 2024 – Present

Staff of News Division

Surabaya, Jawa Timur

- Produced and edited copywriting content for Instagram to increase audience engagement.
- Researched, wrote, and published news articles for the department website to inform students about recent activities and achievements.
- Collaborated with other divisions to align content with the club's communication strategy.

Himpunan Mahasiswa Teknologi Informasi

March 2024 – December 2024

Staff of External Relations Division

Surabaya, Jawa Timur

- Successfully organized **IT Global Connect**, a flagship program connecting students with global education and scholarship opportunities.

- Exceeded KPIs by increasing participant engagement by 30% compared to the previous year and securing international speakers.
- Coordinated end-to-end event management: drafted proposals, managed stakeholder communications, arranged logistics, and conducted post-event evaluations.
- Worked in a dynamic team to handle crisis management and problem-solving during event execution.

ITS Astronomy Club

February 2024 – December 2024

Head of Internal Department

Surabaya, Jawa Timur

- Planned, managed, and supervised 5 internal work programs with 8 staff members to strengthen member engagement and development.
- Delegated tasks, monitored progress, and ensured timely completion of department activities.
- Facilitated regular meetings and coordinated with other departments to align club objectives.

ARA 5.0

October 2023 – June 2024

Staff of Roadshow Division

Surabaya, Jawa Timur

- Designed and developed the roadshow concept to promote ARA 5.0 events across various senior high schools.
- Created engaging presentation materials and handled on-site execution to reach wider audiences.
- Collaborated with the creative and public relations teams to align branding and promotional strategies.

ITS Astronomy Club

October 2023

Treasurer, INOMN (International Observe the Moon Night) 2023

Surabaya, Jawa Timur

- Managed and recorded all financial transactions for the International Observe the Moon Night event with accuracy and transparency.
- Prepared financial reports and budget accountability documents for the club's internal audit.
- Coordinated with the event committee to ensure cost efficiency and proper allocation of funds.