CLARA VALENTINA

Surabaya, Jawa Timur

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Education

Sepuluh Nopember Institute of Technology | **Aug. 2022 – Now**
Undergraduate Student in Information Technology | *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

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 various deep learning models.
- Processed and analyzed textual data to categorize emotions, supporting better customer sentiment understanding.
- Utilized Sastrawi for text preprocessing in Bahasa Indonesia and trained models with TensorFlow and scikit-learn.

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: C++, Python, SQL
Data Tools: Exploratory Data Analysis (EDA), Machine Learning, Apache Spark, Excel, Google Sheets
Frameworks: Streamlit, React, Next.js, Nuxt.js, Tailwind CSS
Developer Tools: GitHub, GitLab, VS Code

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.