

# VERDIAN LOLOATE BERUTU

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## Professional Summary

Fresh Graduated Informatics student with a GPA of 3.92/4.00 and solid experience in data analysis, data visualization, data science, and predictive modeling. Skilled in Python, SQL, Laravel, Tableau, Power BI, Advanced Excel, and cloud technologies. Proven ability to work with real-world datasets, deliver actionable insights, and communicate findings effectively. Actively seeking opportunities in data analyst roles.

## Skills

**Technical Skills** – Python, R, SQL, Pandas, Matplotlib, Seaborn, TensorFlow, Keras, Scikit-learn, PostgreSQL, MySQL, Excel, Power BI, Tableau, Google Looker, Git, Jupyter Notebook, Google Colab.

**Analytical Skills** – Data Cleaning, Data Visualization, Data Science, Statistical Analysis, Predictive Modeling.

**Soft Skills** – Communication, Team Collaboration, Public Speaking, Leadership, Critical Thinking.

## Experience

### Dinas Sosial Kota Medan -Data Analyst Intern

MSIB Program | Feb 2024 – Jun 2024

- ✓ Cleaned and validated over 25,000+ beneficiary records, improving data accuracy and targeting effectiveness by 30% for internal reporting.
- ✓ Built Interactive Dashboard (aid recipients, demographies, and social rehabilitation indicators) that enabled management teams to make decisions up to 50% faster.

### Dicoding Indonesia - Pengembang Front end dan Back end

MSIB Program | Aug 2023 – Dec 2023

- ✓ Completed a full-stack capstone project based on a real industry case, integrating API services, authentication, and database management to deliver a production-ready solution that improved workflow efficiency by 30%.
- ✓ Implemented responsive and user-centered design principles, resulting in a smoother UI flow and improving user experience (UX) by 40% during internal usability testing.

## Projects

### Automated ETL Pipeline for Weather and Disaster Data using Apache Airflow

- ✓ Built an automated ETL pipeline to extract weather and disaster data from BMKG API and process it into structured datasets.

- ✓ Implemented data cleaning and validation pipelines that improved the accuracy and consistency of large-scale time-series datasets by over 35%.
- ✓ Automated data loading processes using psycopg2, reducing manual processing time by 80% and increasing pipeline reliability through detailed logging and error-handling mechanisms.

### **STOCK MARKET ETL PIPELINE WITH POSTGRESQL**

- ✓ Developed an end-to-end ETL pipeline that extracted 5+ years of historical stock data from the Yahoo Finance API using Python and yfinance.
- ✓ Applied data transformations with Pandas to clean, normalize, and structure 50,000+ financial records, improving dataset consistency by 40%.
- ✓ Loaded processed data into PostgreSQL, enabling faster query performance (up to 60% improvement) for analysis and reporting tasks.

### **STOCK MARKET DATA ANALYSIS AND VISUALIZATION USING PYHTON & POWER BI**

- ✓ Developed a stock data pipeline with Python for data extraction and transformation.
- ✓ Designed an interactive Power BI dashboard featuring line charts, slicers, and KPI cards.
- ✓ Enabled automatic data refresh in Power BI by connecting the dashboard directly to PostgreSQL.

### **Clustering of Unemployment Rate**

- ✓ Performed preprocessing on socio-economic datasets, normalized numerical features, and handled missing values to ensure accurate modeling.
- ✓ Integrated PSO to improve clustering quality, demonstrated by reducing the DBI value from 0.8227 (standard K-Medoids) to 0.76 (K-Medoids + PSO).

## **Certifications**

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<u>Junior Web Programmer (BNSP)</u>	<i>Des 2024</i>
<u>Certified Specializing in Data Scientist (BisaAI)</u>	<i>Juni 2024</i>

## **Education**

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### **Universitas Pembangunan Nasional Veteran Jawa Timur**

Bachelor of Informatics   GPA: 3.85/4.00	<i>Jul 2021 – May 2025</i>
Relevant Coursework: Data Analyst, Web Developer, Database Systems, Statistics, Data Structures & Algorithms, Software Engineering, Cloud Computing, Business Intelligence	

## **Organizational Experience**

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### GSDC UPN Veteran Jawa Timur – Member 2023

- ✓ Participated in weekly learning sessions and workshops on computer networks, cloud computing

### Disciplinary Committee – Landasan Kepemimpinan 2023

- ✓ Promoted character development through structured mentoring activities.
- ✓ Ensured discipline compliance among 400+ student participants.