

RIZKI DINATA

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Sukarame, Bandar Lampung, Lampung, Indonesia

As a recent Engineering graduate, I bring a passion **data analysis** with solid foundation in **Python**, **SQL**, **Machine Learning** and **statistics**. Eager to contribute to data-driven solutions, I thrive on uncovering patterns and transforming complex information into actionable insights. My career interests span both **Data Analyst** and **Data Scientist** roles, where I aim to apply my analytical skills to real-world challenges.

EDUCATION

Sumatera Institute of Technology - South Lampung, Indonesia Aug 2018 - Aug 2022

Bachelor of Engineering, GPA 3.67/4.00

- Graduated with Honors (Cum Laude)
- Outstanding Student Candidat in OZT Award (June 2019)
- Coursework: Statistics, Machine Learning, Machine Learning for Geophysics, Data Analysis, Computational, Geophysics, Regression.

Binar Academy Feb 2024 – April 2024

Data Science Student, Score 93/100

- Proficient in SQL for database querying and manipulation.
- Skilled in Python for data analysis and visualization.
- Applied statistical techniques for data insights.
- Developed machine learning models for prediction and classification tasks.
- Utilized SQL on BigQuery for data cleaning and preprocessing.

EXPERIENCES

ID/X Partners Jun 2024 – Jul 2024

Project-Based Virtual Intern: Data Science ID/X Partners x Rakamin Academy

- Developed a machine learning model to predict credit risk, contributing to improved loan approval decisions.
- Utilized descriptive and inferential statistics to uncover patterns and trends in credit data.
- Implemented predictive models using Python.

Home Credit Indonesia May 2024 – Jun 2024

Project-Based Virtual Intern: Data Science Home Credit Indonesia x Rakamin Academy

- Used SQL to extract, transform, and analyze data from databases.
- Gained practical experience with big data technologies and the Hadoop ecosystem.
- Built and evaluated two predictive models, improving the ROC-AUC score to over 60% on imbalanced data.

Institut Teknologi Sumatera - South Lampung, Indonesia Feb 2022 - May 2022

Laboratory Assistant of Geophysical Inversion

- Wrote Python scripts for basic statistical calculations and matrix operations
- Visualized relationships between variables using Matplotlib and Seaborn to compare linear and non-linear inversion methods
- Applied Grid Search and Random Search for earthquake hypocenter prediction.

PROJECTS

Credit Card Fraud Detection May 2024

- Developed a machine learning model for credit card fraud detection, achieving an F1-score of 85% and ROC-AUC of 89% using the Random Forest Classifier algorithm.
- Applied feature engineering techniques to improve the performance of the Random Forest Classifier model.
- Implemented different imbalance dataset handling techniques, including oversampling with SMOTE and class weighting with Random Forest.
- Visualized feature correlations using the Seaborn and Matplotlib libraries.

Telco Customer Churn Prediction – Binar Academy

Maret 2024

- Improved data quality by 80% through cleaning and preprocessing the Telco customer dataset, ensuring a reliable foundation for analysis and modeling.
- Built and compared multiple predictive models using algorithms like Gradient Boosting, Random Forest, and Linear Regression, achieving a best model accuracy of 90% and an AUC-ROC score of 0.8.
- Identified the top 5 factors influencing customer churn through feature importance analysis, providing actionable insights for customer retention strategies.
- Optimized model performance through feature selection, cross-validation, and hyperparameter tuning, potentially leading to a reduction in churn rate.

Bike-Sharing Analysis – Dicoding

November 2023

- Uncovered key usage patterns and trends through comprehensive analysis of bike-sharing data, potentially identifying peak usage times, popular routes, or user demographics.
- Improved data accuracy and reliability by 90% by performing data cleaning and preprocessing, ensuring a solid foundation for analysis and visualization.
- Utilized Python in Google Colab to efficiently manipulate and analyze the bike-sharing dataset.
- Developed an interactive dashboard using Streamlit, enabling users to explore the data and gain insights independently.

ORGANIZATIONAL EXPERIENCE

HMTG Mayapada ITERA

Apr 2021 - Jan 2022

Head of Division Mayapada Welfare

- Managed aspirations for HMTG Mayapada ITERA.
- Organized webinars attended by around 200 people.
- Collected and distributing condolence funds to grieving students and disaster-affected communities.
- Collaborated with members to create social media content about Mental Health for 1 post every week.

CERTIFICATE

- **Google Data Analytics Certificate**, Coursera (February 2024)
- **Intro to Data Analytics**, Revou (January 2024)
- **Data Science Track**, Dicoding (December 2023)
- **Python and Machine Learning Track**, Dicoding (December 2022)

SKILLS

○ Technical skills

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| • Python (Pandas, Numpy) | Seaborn) |
| • SQL | • Data Management |
| • Machine Learning (Scikit-Learn, Tensorflow, XGBoost, LightGBM, Keras) | • Excel (Pivot Table, Conditional Formating, VLookup) |
| • TensorFlow | • BigQuery |
| • Data Scraping (Selenium and BeautifulSoup) | • Github |
| • Statistical | • A/B Testing and Multivariate Testing |
| • Data Analysis | • Visual Studio Code |
| • Data Visualization (Looker, Tableau, Matplotlib, | |

○ Soft skills

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| • Good oral and written communication skills | • Time Management |
| • Analytical thinking | • Fast learning |
| • Problem solving skills | • An ability to work as a team or independently |
| • Leadership | • Curiosity |