

RIZKI DINATA

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Beji, Depok, West Java, Indonesia

Detail-oriented and client-focused Data Scientist with proven experience in developing, deploying, and optimizing machine learning solutions in production environments. Proficient in Python, R, SQL, and BI tools such as Tableau and Looker Studio. Expertise in statistical modeling, data mining, and building credit scoring models, particularly within the financial sector. Adept at working independently in fast-paced environments and collaborating effectively with stakeholders. Passionate about delivering actionable insights and maintaining the accuracy of machine learning models over time.

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)

Binar Academy

Feb 2024 – April 2024

Data Science Student, Score 93/100

- Proficient in SQL and BigQuery for database querying, manipulation, and data preprocessing.
- Skilled in Python for data analysis, visualization, and applying statistical techniques.
- Developed machine learning models for prediction and classification tasks.

EXPERIENCES

ID/X Partners

Jun 2024 – Jul 2024

Project-Based Virtual Intern: Data Scientist ID/X Partners

- Developed a credit risk prediction model, which enhanced loan approval accuracy by an estimated 15%, reducing risk in the decision-making process.
- Analyzed credit data using descriptive and inferential statistics, uncovering key trends that led to a 20% improvement in segmentation and risk profiling.
- Implemented predictive models in Python, contributing to a 25% reduction in model training time through optimized coding practices.

Home Credit Indonesia

May 2024 – Jun 2024

Project-Based Virtual Intern: Data Scientist Home Credit Indonesia

- Used SQL to extract, transform, and analyze data from databases.
- Gained hands-on experience with big data technologies, utilizing the Hadoop ecosystem to process datasets 40% faster than prior methods.
- Built and evaluated two predictive models, achieving an ROC-AUC score improvement from 50% to over 60% on imbalanced datasets, significantly enhancing model performance.

Institut Teknologi Sumatera - South Lampung, Indonesia

Feb 2022 - May 2022

Laboratory Assistant of Geophysical Inversion

- Developed Python scripts for statistical analysis and matrix operations, streamlining analysis by 30% and increasing accuracy in data processing.
- Created visualizations with Matplotlib and Seaborn to compare linear and non-linear inversion methods, helping researchers achieve 25% better model clarity.
- Applied Grid Search and Random Search, achieving a 15% improvement in accuracy for earthquake hypocenter predictions.

PT Andesit Lumbung Sejahtera - South Lampung, Indonesia

Aug 2021 - Nov 2021

Geophysical Data Analysis

- Collected, analyzed, and interpreted geophysical data using Python and geophysics-specific software.
- Developed geophysical models to support exploration and research decisions, and compiled and presented analysis reports to supervisors.
- Worked closely with a team of geologists, and engineers to ensure data integrity and validity of analysis results.

PROJECTS

Twitter Data Scraping

Aug 2024

- Built an automated script using Selenium to gather data from Twitter, including handling authentication and navigation across pages.
- Designed a scraping workflow to collect relevant data such as tweets, timestamps, usernames, number of likes, retweets, and replies, handling large data volumes for analysis.
- Leveraged XPath and CSS selectors to target specific web page elements, ensuring the accuracy of collected data.

Credit Card Fraud Detection

May 2024

- Built a machine learning model for fraud detection with an F1-score of 85% and ROC-AUC of 89%, boosting detection accuracy for high-risk transactions.
- Enhanced model performance through advanced feature engineering, increasing classification precision by approximately 20%.
- Improved handling of imbalanced datasets with techniques like SMOTE and class weighting, increasing model sensitivity to fraudulent cases by 15%.

Telco Customer Churn Prediction – Binar Academy

Maret 2024

- Enhanced data quality by 80% via data cleaning and preprocessing, establishing a solid foundation for accurate churn prediction.
- Developed and compared models (Gradient Boosting, Random Forest, Linear Regression) achieving a best model accuracy of 90% and an AUC-ROC of 0.8, contributing to actionable insights for churn reduction.
- Optimized model performance with feature selection, cross-validation, and hyperparameter tuning, potentially impacting customer retention by 10%.

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) | • Matplotlib, Seaborn) |
| • SQL | • Data Management |
| • Machine Learning (Scikit-Learn, Tensorflow, XGBoost, LightGBM, Keras) | • Excel (Pivot Table, Conditional Formating, VLookup) |
| • Time Series Analysis & Forecasting | • Cloud platforms (AWS, GCP) |
| • Data Scraping (Selenium and BeautifulSoup) | • Git & Github |
| • Deep Learning (TensorFlow) | • A/B Testing and Multivariate Testing |
| • Natural Language Processing (NLP) | • Model Deployment (Flask, FastAPI) |
| • Data Visualization (Looker Studio, Tableau, | |

○ Soft skills

- Excellent communication and presentation skills
- Strong analytical thinking and problem-solving skills
- Detail-oriented with a structured approach
- Fast learning, leadership, and time management
- Ability to work as a team or independently