RIZKI DINATA

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Beji, Depok, West Java, 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 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 calculations 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.

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 Wellfare

- 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**
  - Python (Pandas, Numpy)
  - SQL
  - Machine Learning (Scikit-Learn, Tensorflow, XGBoost, LightGBM, Keras)
  - Time Series Analysis & Forecasting
  - Data Scraping (Selenium and BeautifulSoup)
  - Deep Learning (TensorFlow)
  - Natural Language Processing (NLP)
  - Data Analysis
  - Data Visualization (Looker, Tableau, Matplotlib, Seaborn)
  - Data Management
  - Excel (Pivot Table, Conditional Formating, VLookup)
  - Cloud platforms (AWS, GCP)
  - Github
  - A/B Testing and Multivariate Testing
  - Model Deployment (Flask, FastAPI)
- **Soft skills**
  - Good oral and written communication skills
  - Strong analytical thinking and problem-solving skills
  - Leadership and time management
  - Fast learning and curiousity
  - Ability to work as a team or independently