Arik Rizki Akbar

Data Analyst, Data Scientist, AI

arikrizkiakbar@gmail.com | +6285183270147 | arik147.github.io | www.linkedin.com/in/arikrizkiakbar | Bandung

SUMMARY

A Computer Science graduate from Universitas Pendidikan Indonesia specialized in Data & AI, I am deeply passionate about data analytics, data science, and cloud technologies. My expertise in **Python, SQL, R, Tableau, Looker Studio**, and **Google BigQuery** allows me to transform complex datasets into meaningful, actionable insights. I applied these skills in my thesis project, where I designed and developed a comprehensive **Waste Bank Management System**. This involved building an end-to-end data framework that standardized **data collection**, automated cleaning processes with **Google Apps Script**, and culminated in interactive Looker Studio **dashboards** that provided real-time insights to support data-driven management decisions. I am eager to contribute my skills to forward-thinking projects that enable data-informed decision-making and deliver impactful results.

EDUCATION

Bachelors in Computer Science | Universitas Pendidikan Indonesia

3.76 Cum Laude • Jan 2020 - Jan 2024 • Bandung, Indonesia

- Specialized in Data & AI, gaining hands-on experience in machine learning, deep learning, data analysis, and data visualization to solve real-world problems.
- Developed practical projects across mobile, web, and backend platforms, delivering end-to-end solutions through collaboration and technical proficiency.
- Strengthened algorithmic thinking and programming skills through both procedural and object-oriented approaches, while honing teamwork, problem-solving, and communication in diverse project environments.

EXPERIENCE

Data Entry and Verificator | Ministry of Energy and Mineral Resources RI (KESDM RI)

Oct 2024 - Dec 2024, Contract

- Oversaw the complete data processing workflow from collection to entry for over 15,000 AML grant recipients in collaboration with PT Pos Indonesia and PT PLN.
- Cleaned and standardized datasets to ensure consistency, reducing data entry errors by over 95%.
- Entered and updated an average of 1,000+ records daily, maintaining a near zero-error rate.
- Conducted thorough data validation and discrepancy resolution, supporting accurate and timely government subsidy distribution.

Cloud Computing Cohort | Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka

Feb 2023 - Jul 2023, MBKM

- Specialized in Cloud Computing, gaining practical skills in JavaScript, backend development, DevOps, and Google Cloud services.
- Completed the Associate Cloud Engineer learning path and passed the certification exam.
- Built and deployed a capstone project called Diagnese, a Flask-based ML API hosted on Google Cloud Run with CI/CD and Docker integration.
- Strengthened key soft skills such as critical thinking, communication, and time management through team collaboration and mentoring sessions.

CERTIFICATIONS

Google Data Analytics Professional Certificate | Coursera | Apr 2025

https://coursera.org/share/ec07c64c80d2e47c98adc76270390366

Developed job-ready skills in data cleaning, analysis, and visualization using SQL, R, spreadsheets, and Tableau. Completed end-to-end case studies aligned with real-world data analyst responsibilities.

Associate Cloud Engineer | Google Cloud | Dec 2023

https://google.accredible.com/4ae6ffc6-958a-4f0d-8a01-4533543b2de8#acc.2R1y0YTW

Validated ability to deploy, manage, and monitor cloud solutions using Google Cloud Console and CLI. Demonstrated skills in configuring cloud environments, implementing secure and scalable solutions, and ensuring operational success across Google Cloud services.

Google IT Support Professional Certificate | Coursera | Jul 2023

https://coursera.org/share/ede7df0898a06aa8f73aff54fa795b5e

Gained foundational IT skills in system administration, networking, security, and troubleshooting. Covered key tools and concepts such as Linux, DNS, CLI, and TCP/IP through hands-on labs and practical training.

PROJECTS

Design and Development of a Waste Bank Management System Using a Data Management Framework

- Standardized data collection and input processes using Google Sheets to ensure high data quality and consistency across all records.
- Developed a custom web application using Google Apps Script to create a user-friendly and standardized data entry form.
- Automated data cleaning and transformation workflows using Google Apps Script.
- Designed and built interactive dashboards in Looker Studio to visualize key operational metrics, user behavior, and waste collection trends.
- Integrated Google Sheets directly with Looker Studio to provide near real-time data updates, enabling dynamic and data-driven decision-making for management.

Diagnese App - Bangkit Academy Capstone

- Developed a RESTful API using Flask for symptom-based diagnosis with machine learning.
- Deployed on Google Cloud Run for a scalable and serverless architecture.
- Implemented Docker & CI/CD with Google Cloud Build for seamless deployment.

Cyclistic Bike-Share Analysis – Google Data Analytics Capstone

- Analyzed user behavior to identify key differences between casual riders and annual members.
- Identified patterns in ride frequency and duration that could inform targeted marketing efforts.
- Provided actionable recommendations to convert casual riders into long-term, loyal members.

Sales Analysis Case Study – RevoU Mini Course

- Analyzed global retail sales data using BigQuery for efficient data extraction, aggregation, and trend analysis.
- Leveraged SQL queries in BigQuery to uncover insights related to sales, product performance, and regional variations.
- Visualized key findings using Python (Pandas, Matplotlib, Seaborn) to present actionable insights for sales and inventory decisions.

Twitter Sentiment Analysis – NLP & Machine Learning Project

- Built an NLP pipeline to classify tweet sentiment using ML models and Transformers.
- Preprocessed Twitter data and analyzed engagement (likes, retweets) across sentiment categories.
- Conducted statistical tests (Kruskal-Wallis, Dunn's) to validate findings.
- Visualized results using word clouds, sentiment plots, and scatter plots.

Customer Behavior Analysis & Segmentation – Retail Dataset

- Segmented 100K+ retail customers using RFM metrics and K-Means clustering, identifying key groups driving 47.7% of revenue.
- Highlighted high-loyalty segments with 1.34x purchase frequency, informing targeted retention and upsell campaigns.
- Recommended strategies projected to boost revenue by up to 15%, including reactivation of dormant customers and upselling big spenders.

SKILLS

- **Programming Languages :** C, Python, R, SQL, Javascript, HTML, CSS

- **Tools & Platforms :** Google BigQuery, Looker Studio, Tableau, Excel, Google Cloud Platform (GCP), Flask, Docker, Git, Jupyter, Microsoft Power BI

- **Machine Learning Frameworks :** TensorFlow, Keras

- **Soft Skills :** Analytical Thinking, Problem-Solving, Effective Communication, Team Collaboration, Time Management & Prioritization, Adaptability & Continuous Learning