

Muhammad Ali Akbar Al - Qahri

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SUMMARY

A Data Science graduate from Telkom University with strong academic and organizational experience, including a Scopus-indexed journal publication and leadership roles in student associations. Skilled in data analysis, visualization, statistical modeling, and database management, with professional experience as a Data Visualization Intern at Bank Indonesia. Eager to grow a career in data analysis and big data analytics by applying technical and analytical skills in a dynamic work environment.

EDUCATION

Telkom University

Aug. 2021 – Feb. 2025

Bachelor's Degree in Data Science

GPA: 3.74 / 4.00

Coursework: Data Science, Data Analytic, Databases, Data Visualization, Data Warehouse

EXPERIENCE

Database Engineer

Jun 2025 – Aug 2025

Garda Abdi Negara

Freelance

- Developed a comprehensive Streamlit application to automate the conversion of test questions from various raw formats (.txt, .pdf, .docx) into a structured Excel output.
- Integrated Google Gemini AI API to intelligently detect, clean, and format unstructured questions from PDF files.
- Designed a "Universal Converter" with customizable parsing modes tailored to various test types, balancing automation and manual precision.

Assistant Practicum Instructor

Feb 2024 – Jun 2025

Telkom University

Contract

- Assisted and guided over 160 students across four practicum classes, providing support during lab sessions and project work.
- Graded assignments, quizzes, and final projects, and compiled final scores for lecturers.
- Ensured a consistent and supportive learning environment through clear instruction and hands-on supervision.

Data Analyst Intern

Jul 2024 – Oct 2024

Bank Indonesia – South Sulawesi Representative Office

Internship

- Delivered key data products to support strategic decision-making, including dashboards, sentiment analysis, and asset mapping.
- Built an interactive cash flow dashboard using Power BI, and analyzed digital transaction trends with Python.
- Enhanced data communication and operational efficiency by visualizing regional economic insights.

LICENSES & CERTIFICATIONS

Data Analysis: Fullstack Intensive Bootcamp

Jul 2025

MySkill

Credential ID: 0SXJDBEEGaLK6wYPRSHQ

- Skills: Data Analytics, Python (Programming Language), SQL, Data Visualization, Statistical Data Analysis

Belajar Dasar Data Science

Jul 2025

Dicoding Indonesia

Credential ID: 6RPNGKRN8Z2M

- Covers foundational concepts in data science including data processing, basic statistics, and Python for data analysis.

Data Science Fundamental

Jul 2025

MySkill

- Includes data wrangling, exploratory data analysis, and Python programming in the data science context.

Introduction to Looker Data Studio

Jul 2025

MySkill

- Introduces Looker Studio for data visualization and business intelligence reporting.

Time Series Analysis <i>MySkill</i>	Jul 2025
<ul style="list-style-type: none"> • Focuses on analyzing time-dependent data using Python and statistical forecasting techniques. 	
Administrasi Sistem dan Layanan Infrastruktur TI <i>Google Career Certificates (Coursera)</i>	Sep 2022 <i>Credential ID: 8FR67RJYDPAZ</i>
<ul style="list-style-type: none"> • Covers system administration, networking basics, and infrastructure services. 	
Dasar-Dasar Dukungan Teknis <i>Google Career Certificates (Coursera)</i>	Sep 2022 <i>Credential ID: YEZDMVSRHK25</i>
<ul style="list-style-type: none"> • Covers the fundamentals of IT support and troubleshooting. 	
Keamanan IT: Pertahanan terhadap Kejahatan Digital <i>Google Career Certificates (Coursera)</i>	Sep 2022 <i>Credential ID: UMYF96P898WX</i>
<ul style="list-style-type: none"> • Focuses on IT security concepts and protection against digital threats. 	
Seluk Beluk Jaringan Komputer <i>Google Career Certificates (Coursera)</i>	Sep 2022 <i>Credential ID: JB9RRKVVQWNEH</i>
<ul style="list-style-type: none"> • Explains networking protocols, hardware, and internet infrastructure. 	
Sistem Operasi dan Anda: Menjadi Pengguna yang Berdaya <i>Google Career Certificates (Coursera)</i>	Sep 2022 <i>Credential ID: ECJ9N9R7S2C9</i>
<ul style="list-style-type: none"> • Covers operating systems, file systems, and user empowerment through command-line tools. 	

PROJECTS

Food Security Forecasting Dashboard <i>Streamlit, Random Forest, Plotly</i>	Jul 2025 - Aug 2025
<ul style="list-style-type: none"> • Built an advanced ML-powered dashboard for Indonesian food security analysis using Random Forest with 85.1% R^2 accuracy and time series cross-validation. • Features comprehensive analytics: model performance tracking, feature importance analysis, multi-scenario forecasting (Status Quo, Conservative, Moderate, Optimistic), and provincial risk assessment with geographic visualization. • Identified poverty rate as the top predictor (31.4% importance) and flagged 29.1% of provinces as high-risk, providing actionable policy recommendations for immediate intervention. • Delivered executive dashboard with strategic insights, automated report generation, and data export capabilities for government decision support. • Link: GitHub Repository – Food Security Forecasting Dashboard • Skills: Machine Learning, Predictive Analytics, Time Series Analysis, Risk Assessment, Policy Analytics, Data Visualization 	
Sales Performance Dashboard <i>Looker Studio</i>	Jun 2025 – Jul 2025
<ul style="list-style-type: none"> • Developed an interactive sales dashboard for the marketing team using Looker Studio, turning complex transactional data into strategic insights. • Three-page report includes: (1) Campaign Trend Analysis (Sales, Profit, AOV), (2) Product Analysis (by category and SKU), and (3) 360° Customer Profile (customer-level investigation). • Empowered decision-making from campaign evaluation to product management. • Link: Sales Dashboard on Looker Studio • Skills: Data Analysis, Data Analytics, Data Visualization 	
Gemini AI Question Converter <i>Streamlit, Google Gemini API</i>	May 2025 – Jun 2025
<ul style="list-style-type: none"> • Built a dual-mode Streamlit app to automate question extraction from .txt, .pdf, and .docx files into structured Excel. • Used Gemini AI for automatic question parsing, with three manual parsing modes tailored for various test formats (TWK, TKP, TIU). • Features: live preview, universal converter, answer key detection, and multiple export options (.xlsx, .txt, .pdf, .docx). • Link: GitHub Repository – Question Converter App • Skills: Artificial Intelligence (AI), Optimization 	
Report Produksi PT. Kamalindo Soempurna <i>Microsoft Power BI</i>	Oct 2024 – Jan 2025

- Developed a BI dashboard for a coal mining firm in Jambi to address data fragmentation and manual reporting.
- Integrated real-time production and fuel consumption data using Power BI, improving speed and accuracy of decisions.
- **Link:** Power BI Dashboard – PT Kamalindo
- Skills: Microsoft Power BI, KPI Dashboards, Microsoft Excel, Business Intelligence (BI)

Stock Minimum Price Classification | *XGBoost, SVM* Oct 2024 – Jan 2025

- Developed a machine learning model to classify whether a stock's closing price will exceed a threshold.
- Used Cramér's V for feature selection and trained XGBoost and SVM on 1,023 feature combinations.
- Final model: SVM with RBF kernel showed best performance after hyperparameter tuning.
- **Link:** GitHub Repository – Stocks Classification
- Skills: Data Science, Data Analytics, Machine Learning, Classification, Financial Forecasting

SKILLS

Programming Languages: Python, SQL, R

Data Analysis: Data Cleaning, Exploratory Data Analysis (EDA), Statistical Analysis

Data Visualization: Power BI, Looker Studio, Tableau, Matplotlib, Seaborn

Machine Learning: Classification, Regression, Model Evaluation, Feature Selection

Database & Data Warehouse: MySQL, PostgreSQL, Google BigQuery, Data Modeling

Tools & Platforms: Microsoft Excel, Streamlit, Git, Google Cloud Platform (GCP)

Soft Skills: Problem Solving, Communication, Teamwork, Analytical Thinking

PATENTS

Aplikasi Suit Gunting Batu Kertas Jun 2024

Patent Number: 000639441 [View Patent](#)

- This project is a command-line application developed in Python that simulates the classic game of Rock, Paper, Scissors.
- Its core feature is a configurable backend that allows the administrator to preset the user's probability of winning.
- The program is not intended for entertainment but serves as a powerful educational tool.
- It demonstrates how online gambling systems can be manipulated and raises awareness among young students about the deceptive nature of such platforms.

HONORS & AWARDS

Best Paper Award Jul 2025

The 8th International Conference on Data Science and Its Applications (ICoDSA 2025)

- Awarded for the paper titled "*Classification of Stocks with Potential to Reach Minimum Price Levels on the Indonesian Stock Exchange using Support Vector Machine (SVM) and eXtreme Gradient Boosting (XGBoost)*".
- Collaborated with academic advisor Mr. Deni Saepudin from Telkom University.
- The paper highlights predictive modeling in stock classification for educational and research purposes.

Top 3 Best Final Project Team May 2025

MySkill Data Analysis Fullstack Intensive Bootcamp – Batch 22

- Awarded as one of the top 3 best final project teams among participants of Batch 22.
- Project developed during an intensive 2-week program covering SQL, Python, statistics, and data visualization.
- Demonstrated strong teamwork, analytical thinking, and problem-solving in practical data analysis cases.

ORGANIZATIONS

Himpunan Mahasiswa Data Science

Feb 2024 – Mar 2025

Chairman of BPM HimaDS

Telkom University

- Served as the principal leader of the Student Representative Board (BPM), guiding the board's strategic direction and upholding its constitutional duties.
- Led the supervision and evaluation of all work programs executed by the Data Science Student Association to ensure alignment with organizational goals and student interests.

Himpunan Mahasiswa Data Science

Jul 2023 – Feb 2024

Coordinator of Student Resource Development Division

Telkom University

- Oversaw the planning, execution, and evaluation of programs aimed at enhancing students' technical and soft skills within the Data Science study program.
- Fostered a supportive learning environment to help students face academic and professional challenges.