

FAJAR WAHYU PRATAMA

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Mojokerto district, East Java

EXECUTIVE SUMMARY

Fresh graduate in Mathematics, specializing in Industrial Mathematics and Computer Programming, equipped with hands-on experience in business intelligence, marketing data analysis, and economic forecasting. Proficient in utilizing Python, SQL, Power BI, and advanced Excel for data processing, econometric modeling, and machine learning applications. Adept at conducting in-depth analyses to support policy recommendations, presenting insights effectively to diverse stakeholders, and collaborating across multidisciplinary teams. Passionate about applying analytical skills to drive data-informed decision-making, improve operational efficiency, and contribute to strategic initiatives in economic and financial development.

EDUCATION LEVEL

Institut Teknologi Sepuluh Nopember - Surabaya, Indonesia

Aug 2021 - Aug 2025

Bachelor's Degree in Mathematics, 3.55/4.00

- TEFL Score: 513
- Relevant courses: Object Oriented Programming, Database Systems, Mathematical Software, Statistical Methods, Forecasting Methods, Operations Research, Risk Analysis, Simulation Technique, Mathematical Modeling and Capita Selecta of Industrial Mathematics.

WORKING EXPERIENCES

PT Home Credit Indonesia - Jakarta, Indonesia

Mar 2025 - Apr 2025

Data Science Intern

Project Based Virtual Internship

- Conducted in-depth analysis on customer and transaction data using Python and SQL, identifying key behavioral patterns and data anomalies through Exploratory Data Analysis (EDA).
- Built and evaluated multiple machine learning models (Logistic Regression, Decision Tree, Clustering), with the LightGBM model achieving 92% accuracy in customer classification.
- Designed and implemented an end-to-end predictive modeling pipeline, from data preprocessing to evaluation, using pandas, NumPy, and scikit-learn to streamline the modeling workflow.
- Automated data cleaning and feature engineering processes, reducing manual preparation time and enhancing model readiness.

PT Sumber Alfaria Trijaya Tbk - Sidoarjo, Indonesia

Sep 2024 - Dec 2024

Marketing Data Analyst

On-site Internship - MSIB Batch 7

- Managed and analyzed data for regional and national promotional programs (PWP, PSM, Serba Gratis, Gratis Suka-Suka) and member contributions, ensuring data accuracy across 950+ stores using advanced Excel techniques.
- Collaborated with regional teams to analyze promotional trends, providing data-driven recommendations that helped achieve IDR 370 billion in monthly retail sales
- Conducted market research to understand consumer needs and preferences, enabling better alignment of promotional products with customer demand, and successfully increased target achievement to 92,3%.
- Produced analytical X Rak reports to support decision-making and strategy refinement in regional marketing operations.

Bank Muamalat X Rakamin Academy - Jakarta, Indonesia

Apr 2024 - May 2024

Business Intelligence Analyst

Project Based Virtual Internship

- Analyzed large datasets using advanced Excel, producing actionable insights to support financial performance evaluation.
- Executed complex SQL queries, including data joins and common table expressions, leveraging BigQuery fundamentals to derive actionable insights.
- Designed and presented interactive dashboards in Looker Studio to clearly communicate business performance and recommendations to stakeholders.

Subdirektorat Koordinasi Perkuliahan Bersama / SKPB ITS -

Dec 2023 - Feb 2024

Surabaya, Indonesia

Front End Developer

On-site Internship

- Developed a responsive and user-friendly web interface for ITS Resource Sharing using HTML, PHP, CSS, and JavaScript.
- Created an intuitive admin dashboard that improved operational efficiency and user satisfaction.
- Received commendations from the Head of ITS Resource Sharing and Vice Chancellor II for successful project delivery.

ORGANIZATIONAL EXPERIENCES

Digistar Club 2024 by Telkom Indonesia - Jakarta, Indonesia <i>Front-End Mentee</i>	Sept 2024 - Oct 2024
<ul style="list-style-type: none">Built responsive React UIs with routing and hooks for a real-time vehicle tracking project, enhancing performance and user experience.Collaborated within a cross-functional team to deliver practical, user-focused solutions for logistics tracking.	
Technopreneurship Development Center ITS - Surabaya, Indonesia <i>External Legal Advisor & External Staff</i>	Mar 2022 - Jan 2024
<ul style="list-style-type: none">Acted as liaison between stakeholders, ensuring clear communication and project alignment while leading collaborative initiatives.Moderated events such as TDC Talk and UKMKU UNY X TDC ITS Comparative Study, engaging diverse participants and improving interpersonal and presentation skills.Served as Person-in-Charge (PIC) in collaborative projects, demonstrating leadership and effective event coordination.	
Olimpiade Matematika ITS (OMITS) 16TH - Surabaya, Indonesia <i>Sponsorship Staff</i>	Mar 2023 - Nov 2023
<ul style="list-style-type: none">Designed and presented sponsorship proposals that secured partnerships with major companies, including PT Pertamina and Telkomsel.Strengthened sponsor relationships through professional communication, increasing trust and long-term engagement.	
TDC Summit Fest 2022 - Surabaya, Indonesia <i>Sponsorship Manager</i>	Jul 2022 - Oct 2022
<ul style="list-style-type: none">Led and coordinated a sponsorship team to develop proposals and conduct sponsor outreach using a customer-focused approach, clearly communicating event benefits.Supervised team members in maintaining strong sponsor relationships and facilitating communication between sponsors and event committees, ensuring smooth execution and meeting sponsor expectations.	

PROJECTS

Forecasting Buyback Price of Antam Gold Using Transfer Function Model	(2025)
<ul style="list-style-type: none">Modeled the relationship between Antam's gold buyback price and USD/IDR exchange rates using transfer function models in R, Minitab, and SAS. Comparing multiple model orders to achieve optimal accuracy, with the most responsive model reaching MAPE 14,38%, and applied statistical diagnostics as well as time series analysis to validate forecasting reliability.	
UI/UX Design for Mobile Apps <i>Cattle Waste Management</i>	(2024)
<ul style="list-style-type: none">Designed the UI/UX for a mobile application focused on livestock waste management, ensuring the design effectively supports key functions as part of a PKM project	
Stock Price Forecasting for PT. Gudang Garam Tbk	(2024)
<ul style="list-style-type: none">Analyzed daily stock prices of PT Gudang Garam Tbk (Dec 2023 - Feb 2024) using stationarity tests, Box-Cox transformations, and ARIMA modeling in R and Excel. Developed Python-based forecasting scripts and evaluated performance using MAPE for accuracy measurement	

<https://fajarwahyupratamaa.github.io>

ACHIEVEMENTS

Passed PKM Funded 2024 by the Directorate General of Higher Education and the Ministry of education and culture	(2024)
Semifinalist - Marketeers x Pertamina Innovation Challenge	(2023)
Semifinalist - Start-up Innovation Contest 2022 by Indonesian University	(2022)
3rd Place - Scientific class 2022 HIMATIKA ITS	(2022)

SKILLS, CERTIFICATIONS & OTHER EXPERIENCES

<ul style="list-style-type: none">Language: Bahasa Indonesia (Native), English (Fluent).	
<ul style="list-style-type: none">Hard Skills: Microsoft Office, Google Workspace, Figma, Python, MATLAB, JavaScript, HTML5, CSS, PHP, RStudio, SQL/MySQL, Google BigQuery, Power BI, Google Looker Studio, Tableau.	
<ul style="list-style-type: none">Others: Public Speaking, Critical Thinking, Problem Solving, Detail-oriented, Task & Project Management, Business Analysis, Web Development, Risk Management, Statistical Computing, Data Analysis, Machine Learning.	
<ul style="list-style-type: none">Licenses and certification: Data Preparation in Database (MySkill 2024), Introduction to Machine Learning (MySkill 2024), Object Oriented Programming (MySkill 2024), Data Science Fundamentals (DQLab 2024), Fundamental SQL (DQLab 2024), Python Fundamental for Data Science (DQLab 2024), R Fundamental for Data Science (DQLab 2024).	