



Azhar Amirul Abid

azharabid21@gmail.com | +6281297879405

Bandung, Indonesia | <https://www.linkedin.com/in/azhar-amirul-abid-5b0484306/>

A recent Informatics graduate from Telkom University with a strong passion for Machine Learning, Data Science, and Natural Language Processing (NLP). I have hands-on experience in data processing and software development. My undergraduate research focused on "Depression Detection on X with Word2Vec Feature Expansion via Hybrid CNN-BiLSTM Method and Particle Swarm Optimization," demonstrating my ability to apply advanced deep learning and optimization techniques to mental health analysis in textual data. Proficient in Python and SQL, I bring strong analytical thinking, problem-solving abilities, and a collaborative mindset, and I am eager to contribute to innovative, data-driven solutions in the tech industry.

Education

Telkom University – Bandung, Indonesia

Sept 2021 – Nov 2025

Bachelor's Degree in Informatics

- **GPA:** 3.57/4.00
- **Thesis:** Depression Detection on X with Word2Vec Feature Expansion via Hybrid CNN-BiLSTM Method and Particle Swarm Optimization

Internship & Work Experiences

Project Based Virtual Intern : Kimia Farma X Rakamin Academic – Indonesia

Jun 2024

Big Data Analytics

- Analyzed and cleaned over one million records of healthcare data, enhancing the accuracy of data-driven decisions and minimizing inconsistencies by 95%.
- Built and optimized ETL workflows and predictive models with Python and SQL, boosting processing efficiency by 40%.
- Designed dynamic dashboards using Looker Studio to present critical insights, improving stakeholder comprehension by 30%.

PT. Jembo Cable Company, Tbk – Tangerang, Indonesia

Jul 2024 – Aug 2024

IT Intern

- Built an interactive dashboard in Looker Studio that enhanced production data visualization and improved reporting efficiency by 40%.
- Examined over 100,000 rows of production data to uncover trends and support process optimization.
- Replaced manual data collection with a digital solution using Google Forms, cutting down paperwork by 60% and boosting data accuracy by 30%.

PT. Motio Labs – Indonesia

Nov 2024 – Jan 2025

COE CSWDA Telkom University

- Analyzed and processed over 50,000 news articles, applying preprocessing and feature engineering techniques to improve model accuracy.
- Created a user-friendly GUI application that allows users to verify the credibility of news content, enhancing ease of use and accessibility.
- Built a fake news classification model using LSTM, reaching over 85% accuracy in distinguishing between real and fake news.

Project Based Virtual Intern : Bank Mandiri X Rakamin Academic – Indonesia

March 2025

Mobile Apps Developer

- Created a mobile news application called *Mandiri News* using Kotlin for Android, integrating RESTful APIs to deliver real-time, dynamic content.

- Built a responsive user interface with features such as category-based filtering and search functionality, ensuring a smooth user experience across platforms.
- Conducted unit testing to maintain code reliability and collaborated using GitLab in an Agile development environment for efficient version control and teamwork.

PT. Merak Chemicals Indonesia (Maganghub – Ministry of Manpower RI)

Dec 2025 – Present

Data Process / Power BI Specialist Intern

- Designed and developed a PTA & PX Production Capacity Dashboard in Power BI to monitor global petrochemical plant performance across 600+ PTA and 300+ PX producers, building ETL pipelines using Power Query M to extract raw production data from multi-sheet Excel workbooks containing monthly capacity (KT), days offline, and production output by producer, location, and country transforming it through column unpivoting, date normalization, and operation rate calculations derived from production output against capacity adjusted by offline days and loading it into a star schema semantic model with DAX measures powering interactive combo charts (production vs. capacity bars with operation rate trendlines), top producer rankings, and multi-level slicers by country, year, and producer, enabling management to pinpoint underperforming plants and track capacity utilization trends at a glance.
- Built a comprehensive Export-Import (EXIM) Trade Analytics Dashboard tracking Indonesia's cross-border trade flows for key petrochemical products (PET Bottle, PTA, Paraxylene, Acetic Acid) spanning 2023–2025, developing ETL workflows to extract raw customs and trade data from multiple Excel sheets, transform it through null-preserving logic, column unpivoting, country mapping, and metric standardization across value (USD) and quantity (KG) and load clean fact and dimension tables into a structured data model, delivering interactive Deneb Vega-Lite KPI cards with trendlines and a dynamic metric toggle system to support commercial and procurement decision-making.
- Developed a Market Watchlist Dashboard for daily petrochemical commodity price monitoring (PX, PTA, Naphtha, Benzene, Crude Oil, Ethylene), implementing ETL processes to extract pricing data from operational Excel sources, transform it through data cleansing, type casting, and LASTDATE-based aggregation logic and load calculated spread and margin KPIs into the semantic layer, powering custom Deneb Vega-Lite watchlist-style visuals with sparklines that enable stakeholders to track real-time price movements and margin indicators across the full petrochemical value chain.
- Established a standardized ETL and BI development framework for the department, enforcing zero-raw-data-modification principles, sheet-based extraction methods, reusable Power Query M transformation patterns, consistent DAX measure libraries, and unified Deneb Vega-Lite theming — improving data pipeline maintainability, reducing dashboard development time, and ensuring reproducibility of future reporting solutions across the organization.

Certifications

Basic Artificial Intelligence

Mounev Academy Apr 2024

SQL For Carier

Mounev Academy Mar 2024

Fundamental Algorithm

Coding Studio Apr 2025

Fundamental Commanf Linux

Coding Studio Apr 2025

Penetration Testing

Coding Studio Apr 2025

Machine Learning with Big Data

UC San Diego, Coursera Mar 2025

Foundations, Data, Data, Everywhere

Google, Coursera Mar 2025

Skills & Others

Hard Skills : SQL, Data Visualization, Python, Database Management, Data Cleaning & Wrangling, Data Analysis & Manipulation, Statistical Analysis

Soft Skills : Analytical Thinking, Problem Solving, Attention to Detail, Communication & Teamwork, Critical Thinking, Time Management

Languages : Bahasa Indonesia (Native), English