

MOHAMAD ALAMSYAH

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SKILLS

Programming Languages, Tools, and Libraries : Python, R, SQL (Postgres, BigQuery, MySQL), Tableau, Power BI, Looker, dbt, Excel, Google Sheets, PivotTable, PowerQuery, NumPy, Pandas, SciPy, matplotlib, scikit-learn, Plotly, psycopg2, Streamlit, nltk, BeautifulSoup, WordCloud, Tensorflow, PyTorch, keras, transformers

Languages : Indonesian (Native), English (C2), German (B2) and Italian (A1)

FEATURED PROJECTS

Hospital Inpatient Discharges in New York, 2020-2023

Sep 2025

- Developed a dashboard from 3M+ hospital inpatient discharges with Tableau to explore insights in healthcare quality, with features of patient demographics, diagnosis by coding system, and patient flow overview
- Calculated three metrics in healthcare quality: Length of Stay, Emergency Department, and Covered Costs, and mapped groups of diagnosis by ICD-10-CM body system in CCSR and case mix complexity of patients in APR

Dashboard of Market Research for AI Start-up in Skincare at Malaysia

Jun - Jul 2025

- Designed a dashboard in Excel from 5,000+ responses across Malaysia to check for brand awareness in AI skincare start-up, along with addressing pain points and preferences in buying skincare for market research
- Visualized responses of Likert scale, close-ended questions, and user preferences, resulting in records of 19 skin types, 15 ingredient preferences, 8 product channels, and 5 marketplaces

Customers Sales and Sellers Marketing Funnel Analysis, Olist Brazil

Apr - May 2025

- Conducted data processing and cohort analysis from an e-commerce dataset of customers sales and sellers marketing funnel in Python to uncover behavioral and sales insights
- Built a dashboard in Tableau aimed towards insights for user acquisition, featuring 9 KPIs with MoM and QoQ, demographics, sales growth by product categories, landing pages, acquisition channels, and sales representatives

Airline Loyalty Programs Dashboard, Amethyst Airlines Canada

Mar 2025

- Developed a dashboard in Tableau from a 6-year loyalty history and flight activity data of a fictitious airline in Canada to display segments and behavior in 4,000 registered customers
- Assembled visuals of customer segmentation by six variables, demographics, quarterly cohort analysis, booked flights and points, and scorecards for metrics of revenue, CLV, and churn rate

SportsLogs: Sports Logging Web App Dashboard

Nov 2024 - Jan 2025

- Processed 10+ time-series datasets (mainly in JSON format) from biometric sensor of FitBit into a web-app dashboard with Python (matplotlib and Streamlit) to track sports performance of 16 players
- Created a total of 24 functions for data cleaning and data visualization, and designed 13 different visuals scalable for both team and individuals, ranging from calories burned, active minutes, duration of sleep stages, up to wellness score per week, SRPE by sport activities, and monthly HR zones in all sports

Dashboard of US Healthcare Research Payments 2023

Sep 2024

- Visualized a map-based dashboard of research payments in Tableau from ~400,000 records of non-teaching hospital institutions (NCREs) in the US with data analysis using SQL (BigQuery)
- Showcased insights such as total records by state and city, most-funded research by therapeutic areas, products, and institutions, and added filters of Top N, Product Category, and Smart Search

EDUCATION

Bandung Institute of Technology (ITB)

November 2023

Bachelor of Science, Biomedical Engineering

Bandung, Indonesia

- Completed 149 credits, actively contributed in 10+ projects involving cross-functional teams. Notable courses: Healthcare Technology Management, Biomedical System Design, Financial Planning, Creative Product Strategy
- **Organizations:** ITB Electrical Eng. Student Association (HME ITB), Ganesha Model United Nations Club
- **Thesis Project:** Development Of Multi-Analyte Biosensor based on Screen-Printed Carbon Electrode (SPCE) Modified With Graphene Oxide and Gold Nanoparticles (GO-AuNP)