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 de-identified hospital inpatient discharges in New York from 2020 to 2023 with Tableau, featuring 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

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

Pharma Sales Dashboard: Kimia Farma, Indonesia — Jan 2025

- Developed a dashboard in Looker Studio for drug sales of a pharmacy retail company using a 4-year period dataset of 600,000+ anonymized transactions in 1,762 branches across Indonesia
- Displayed 5 metrics aimed towards cross-functional stakeholders such as average ratings, total sales, and top product by profit, along with filters on year period, city, provinces, and main islands

Drug Reviews Dashboard and Sentiment Prediction, drugs.com — May - Jul 2024

- Developed drug brands ratings dashboard in Tableau from 390,000+ records in drugs.com, conducted data analysis in PostgreSQL, and modeled sentiment prediction from reviews in Python with accuracy of 80.98 %
- Conducted data cleaning such as cleaning sensitive information in reviews to preserve user privacy, and streamlining drug names into three separate columns: drug brands, usages, and generic names

Health Technology Entrepreneurship: Mental Health Apps for College Students — Aug - Dec 2021

- Led the development of a business plan for Something, a SaaS-based mental health platform targeting college students in Bandung, Indonesia, with features such as medical counseling, daily self-assessment tools, personalized reminders, and community support groups.
- Defined strategic milestones, financial projections, and potential partnerships using frameworks such as Business Model Canvas and Value Proposition Canvas, forecasting a user reach of 100,000+ students across Indonesia within 5 years and a projected profit of IDR 2,989B, and presented final pitch and live app demonstration to students of Biomedical Engineering at ITB and students of Medicine at Airlangga University

EDUCATION

Bandung Institute of Technology (ITB) — November 2023

Bachelor of Science, Biomedical Engineering   *Bandung, Indonesia*

- Completed 149 credits in biomedical, life sciences, up to strategy and management courses, and actively contributed in 10+ projects involving cross-functional teams. Notable courses include: Healthcare Technology Management, Biomedical System Design, Financial Planning, Creative Product Strategy, Biostatistics
- **Organizations:** ITB Electrical Eng. Student Association (HME ITB), Ganesha Model United Nations Club