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
- Provided filters to enable further details including hospital service areas, start and end of discharge year, smart search, map by county, patient population, and hospital or name of facility

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

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 and conducted 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

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, resulting in a total of 24 different functions for data cleaning and data visualization, code scaled for individual and the whole team
- Showcased 13 visuals with a variety of charts, such as sleep stages with step chart (per day) and stacked area chart (whole duration), SRPE by sport activities with BoxPlot, and weekly wellness score with RadarChart

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

- Conducted data cleaning such as cleaning sensitive information in reviews to preserve user privacy, and streamlining drug names into three separate columns: drug brands, generic names, and drug usages
- Developed a customer-oriented drug reviews dashboard in Tableau from 390,000+ records of drugs.com, created a database and conducted data analysis in PostgreSQL
- Modeled a reviews sentiment prediction using deep learning and transformers with final accuracy of 80.98 %

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 in financial, clinical, and engineering. Notable courses include: Healthcare Technology Management, Biomedical System Design, Financial Planning, Creative Product Strategy, Probability and Biostatistics, Sustainable Development
- **Organizations:** ITB Electrical Eng. Student Association (HME ITB), Ganesha Model United Nations Club