

Mohammad Aqsha Dwinovryan

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SUMMARY

Third-year Statistics student at Universitas Indonesia with strong interest in data analytics, business intelligence, and data visualization. Skilled in SQL, Python, R, Microsoft Excel, and statistical modeling. Experienced in data analysis and reporting through academic projects. Known for analytical thinking, attention to detail, and strong problem-solving abilities.

EDUCATION

Universitas Indonesia | Depok, Indonesia

2023 - Present

Bachelor Degree in Statistic (Now)

- GPA: 3.34 / 4.0
- Relevant Coursework : Data Mining, Database Systems, Exploratory Data Analysis, Linear Models, Forecasting, Econometrics, Unstructured Data Analysis.

TECHNICAL SKILLS

- Python (Pandas, NumPy, Scikit-learn), R, SQL, Microsoft Excel
- Machine Learning: Regression, Classification, Clustering
- Data Visualization & Storytelling: Matplotlib, Seaborn, ggplot2, Narrative-Driven Reporting
- Tools & Deployment: Google Colab, RStudio, SmartPLS, SQLite, Power BI, Google Data Studio

PROFESSIONAL EXPERIENCES

Financial, Information & Tourism Statistics, BPS RI | Jakarta, Indonesia

December 2025 - February 2026

Internship Data Analyst

- Conducted trend, seasonal pattern, and temporal segmentation analysis of international tourist visits to Indonesia for the 2024– 2025 period.
- Maintained and updated the international tourist visitor dashboard and its supporting database.

Safety, Risk & Performance Management Department,

June 2025 - July 2025

InJourney Airports, Sultan Thaha | Jambi, Indonesia

Internship Risk Management Analyst

- Conducted on-site field audits to verify adherence to standard operating procedures (SOPs) and operational safety.
- Reviewed and analyzed safety risk and performance reports to maintain high standards of compliance.

ORGANIZATIONAL EXPERIENCES

Pojok Statistik Universitas Indonesia | Depok, Indonesia

February 2025 - Present

Head of Service and Consultation Division

- Provided statistical consultation services to clients, offering guidance on research design, data analysis, and interpretation.
- Collaborated in client data analysis projects, applying statistical methods to generate actionable insights and recommendations.

Deputy Coordinator of the Data Science Competition Division

- Coordinated end-to-end operational workflows and structured evaluation frameworks for the Data Science Competition.
- Assessed participants' image classification models and pipelines, evaluating performance based on classification metrics and validation accuracy.

PROJECTS

Consumer Behavior Analysis using Market Basket Analysis - [[Article](#)]

- Analyzed over 1000 rows of retail transaction data across three city branches using Python (Pandas, Mlxtend) to uncover product purchasing patterns.
- Implemented the Apriori Algorithm to generate actionable association rules evaluated by Support, Confidence, and Lift metrics.
- Segmented customer behavior based on geographical locations (city branches) and customer profiles (Member vs. Normal) to identify distinct shopping personas.
- Formulated data-driven business recommendations, including product placement optimization, cross-selling bundle strategies, and personalized loyalty programs.

Tools & Methods: *Python, Data Mining, Market Basket Analysis, Apriori Algorithm, Association Rule Mining, Customer Segmentation, Persona Analysis, Cross-Selling & Product Bundling Strategy.*

Relational Database Design & GUI-Driven Transactional Analytics for Campus Canteen - [[Article](#)]

- Implemented a Normalized Relational Database Architecture up to 3NF, managing complex relationships between Student IDs, Merchant Menus, and Transaction Histories.
- Formulated a Clean Data Pipeline Architecture that transforms manual retail tracking into structured, analytics-ready historical data for sales performance and payment method evaluation.
- Developed a GUI-Driven End-to-End System using Gradio to connect the SQLite backend, enabling automated order capturing, real-time stock updates, and role-based access control.

Tools & Methods: *Python, SQL, SQLite, GUI Prototyping (Gradio), Relational Database Design, Data Modeling, 3NF Normalization, Data Validation, Transactional Data Management.*

Sentiment Analysis and Topic Modeling on Mobile JKN App User Reviews using Natural Language Processing - [[Project](#)]

- Scraped and preprocessed ~20,000 Mobile JKN Play Store reviews, implementing an advanced LLM-assisted annotation pipeline using Claude Sonnet 4.6 for sentiment labeling, achieving high data reliability with a Cohen's Kappa score of 0.839 on a 1,000-sample verification set..
- Comparative-tested four Transformers architectures (IndoBERT, IndoBERTweet, mBERT, XLM-RoBERTa), fine-tuning the optimal IndoBERT model to achieve an Accuracy of 0.8667 and Macro-F1 score of 0.8134 in capturing complex contextual nuances.
- Leveraged BERTopic (combined with UMAP and HDBSCAN) and C-TF-IDF keyword extraction to isolate core technical pain points (OTP errors, captcha bugs) and user features, formulating data-driven optimization recommendations for government public health service applications.

Tools & Methods: *Python, Natural Language Processing, Deep Learning, Transformers (IndoBERT, IndoBERTweet, mBERT, XLM-RoBERTa), Text Scraping & Preprocessing, LLM-Assisted Annotation, Topic Modeling (BERTopic), Embedding, Dimensionality Reduction (UMAP), Clustering (HDBSCAN), Model Evaluation.*