MOHD ILHAM ISHAK BIN AMAN

Data Engineer | Analytics Engineering | Business Intelligence

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LinkedIn Profile | Portfolio

PROFESSIONAL SUMMARY

Data Engineer with 4+ years of experience building end-to-end analytics platforms, ELT pipelines, and production data workflows. Experienced in SQL, Google BigQuery, Python, and warehouse architecture design. Proven ability to automate ingestion pipelines and deliver production-ready datasets for business intelligence and forecasting in startup environments.

CORE COMPETENCIES

Data Engineering & Architecture: ELT Pipelines | Google BigQuery Warehousing | Raw → Aggregated → Reporting Layer Design | Data Modeling (Fact & Aggregate Tables) | Schema Normalization

Programming & Workflow: Advanced SQL | Python (Data Ingestion & Automation) | FastAPI | JavaScript | Git

Analytics & BI: Power BI (DAX) | Looker Studio | KPI Development (Revenue, AOV, Channel Mix) | Production Analytics Dashboards | Time-Series Analysis

Data Integration & Forecasting: Multi-Source Ingestion (POS, GrabFood) | API-Based Data Exposure | Moving Average | Exponential Smoothing | Regression Forecasting

Platforms & Tools: GCP | Meta Ads Manager | Google Analytics

PROFESSIONAL EXPERIENCE

Data Analyst / Analytics Engineer (Data Engineering Focus)

Pasta Port | SJD Empire SDN BHD, Penang | 2022 – Present

Built and managed complete end-to-end analytics infrastructure for fast-growing restaurant chain, supporting data-driven expansion from 2 to 7 outlets.

- Designed centralized **BigQuery warehouse** architecture (Raw → Aggregated → Reporting layers) supporting analytics across 7 outlets.
- Built automated ingestion pipelines integrating GrabFood and Hubbo (POS), processing thousands of transactions monthly.
- Implemented **SQL transformations** for **schema normalization**, **data cleaning**, **aggregation**, and time-series modeling inside BigQuery.
- Reduced reporting time from 2–3 hours to under 5 minutes through **automated ELT workflows** (90%+ efficiency gain).
- **Developed internal analytics** portal using Next.js and FastAPI to expose curated datasets.
- Built 24/7 Looker Studio dashboards for shareholders with daily automated refresh.
- Developed installer-based deployment solution reducing system setup time by ~95% per workstation.
- Created KPI models in Power BI and delivered executive reporting for expansion planning.
- Applied forecasting techniques including moving average, exponential smoothing, and regression.

Freelance Data & Marketing Analyst

Dimensa Solution | 2015 – Present

- Built **dashboards** and **analytics pipelines** for SME clients.
- Conducted campaign performance analysis using Meta Ads Manager and Google Analytics.
- Delivered customer behavior **insights** and **revenue optimization** strategies.

Research Assistant

Universiti Sains Malaysia | 2015 – 2017

- Conducted **MATLAB-based system optimization simulations** applying statistical analysis, evolutionary algorithms, and computational modeling techniques.
- Authored technical documentation and research papers with **data analysis, statistical validation, and results visualization.**
- Developed proficiency in **quantitative analysis, experimental design, and scientific computing**—foundational skills applicable to data analytics.

EDUCATION

Bachelor of Electrical Engineering

Universiti Sains Malaysia

Strong foundation in **quantitative analysis, statistical methods, system optimization, and computational problem-solving**

CONTINUOUS PROFESSIONAL DEVELOPMENT

- **Apache Airflow** for ELT orchestration, **DAG** design, and scheduled BigQuery workflows.
- **Advanced BigQuery** warehouse optimization.
- **FastAPI backend** services for analytics platforms.

LANGUAGES

- Malay (Native)
- English (Fluent)