

# MOHD ILHAM ISHAK BIN AMAN

## Data Analyst

Kajang, Selangor | +6011-71320205 | [ilhamishakaman@gmail.com](mailto:ilhamishakaman@gmail.com) | [LinkedIn Profile](#)

**Profile Summary:** Data Analyst with a strong foundation in Electrical Engineering and hands-on experience in SQL analytics, Google BigQuery data warehousing, ETL/ELT pipelines, and dashboard development. Proven ability to integrate multi-source datasets, normalize schemas, and deliver analysis-ready data to support business decision-making. Experienced in building automated data workflows, KPI reporting, and internal analytics platforms across F&B, operations, and research environments.

### Core Data & Analytics Skills

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#### Data Analysis & BI

- Exploratory Data Analysis (EDA)
- KPI Definition
- Performance Tracking
- Trend & Variance Analysis
- Dashboard Design
- Executive Reporting
- Data Quality Validation

#### ETL & Engineering

- ETL / ELT Pipelines
- Multi-Source Integration
- SKU Mapping
- Batch Processing
- Data Transformation
- Staging Layer Design

#### Tools & Workflow

- Looker Studio
- Google Sheets (Apps Script)
- Excel (Power Query)
- Google Analytics (GA4)
- MATLAB
- Git
- Next.js & TypeScript
- React + Vite

#### SQL & Data Warehousing

- Google BigQuery
- SQL (Analytics, Views)
- Data Modeling
- Schema Normalization

### Featured Project:

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#### Sales Analytics & Automation Platform (F&B)

- Built automated ETL/ELT pipelines integrating POS, GrabFood, and foodpanda data
- Automated CSV ingestion and batch jobs using Google Apps Script
- Modeled datasets in BigQuery for scalable analytics
- Developed executive dashboards in Looker Studio
- Built internal analytics dashboard using Next.js and Tailwind CSS

#### Inventory Management & Access Control System (Internal – F&B Operations)

- Designed and built an internal inventory platform to manage raw ingredients, finished products, and worker permissions
- Implemented role-based access control to restrict item visibility and system features by user type (admin / staff)
- Modeled relational data in PostgreSQL to link ingredients, product recipes, and stock movement
- Developed responsive frontend using Next.js and Tailwind CSS for fast internal workflows
- Built real-time operational dashboards and stock visualizations using Chart.js
- Enabled centralized tracking of inventory levels to support purchasing decisions

## **PROFESSIONAL EXPERIENCE:**

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### **Data Analyst/Business Data Support**

2022 - 2026

*Pasta Port (SJD Empire SDN BHD), Penang.*

- Analyzed sales and operational datasets for expansion planning
- Built BigQuery SQL queries and Excel dashboards for KPI tracking
- Delivered insights supporting growth from 2 to 7 outlets

### **Freelance Data & Marketing Services**

2015 - Present

*Dimensa Solution, Remote.*

- Managed digital campaign **performance analysis** using Meta Ads Manager and Google Analytics.
- Designed reports for **client decision-making** (sales performance, funnel analysis, audience segmentation).
- Built and managed client websites and integrated **analytics tracking**.
- Performed project documentation, invoicing, and performance reporting for SME clients.

### **Data Mining & Sensor Project**

2019

*R3ka Resources, Penang.*

- Collected and processed sensor data from Arduino-based systems (ultrasonic sensors, LiDAR, cameras).
- Performed data sorting, validation, and tabulation to support system evaluation.
- Integrated multi-sensor datasets into structured formats for analysis and testing.

### **Research Assistant (Data & Signal Analysis)**

2015 - 2017

*Universiti Sains Malaysia, Penang.*

- Conducted data analysis and MATLAB simulations for OFDM system optimization.
- Applied statistical and AI-based techniques, including Genetic Algorithms, for performance improvement.
- Authored academic journals and technical research papers.

## **Education**

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### Bachelor's Degree, Electrical Engineering

2011 - 2015

*Universiti Sains Malaysia*

### Pre-University Program, Physical Science

2010 - 2011

*Matriculation College Negeri Sembilan*

## **LANGUAGES:**

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- Malay (Native)
- English (Fluent)

## **REFERENCE:**

Available upon request.

More details about project, kindly visit this link: <http://ilhamsahak.github.io/online-resume/>