



AQIL AIMAN BIN RAFEE

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OBJECTIVE

Aspiring Data Engineer & Data Science Student at IIUM with a strong foundation in data engineering, analytics, and web development. Driven to design scalable data pipelines, transforming complex datasets into actionable insights, and bridging the gap between raw data and real-world user impact. Experienced in ETL development, data integration, and automation through academic and personal projects. **Seeking a 6-month internship (June/July 2026 – December 2026) in Data Engineering, Data Analytics, Data Scientist, or related roles.**

EDUCATIONAL BACKGROUND

International Islamic University Malaysia (IIUM), Gombak (October 2022 - Present)
Bachelor In Computer Science (Hons.) | Current CGPA: 3.33
Specialization: Data Science

Centre for Foundation Studies IIUM (CFS IIUM), Gambang (October 2021 - June 2022)
Foundation in Engineering and Computer Science

WORKING EXPERIENCE

Service Crew & Content Editor (June 2025 – September 2025)
Terbang Tinggi Cafe – Malacca, Malaysia (On-site)

- Rotated across barista, kitchen, cake station, and floor operations, supporting full-store workflow.
- Produced promotional content for new menu launches, including food photography, video editing, and social media marketing materials.

Freelance Web Developer (April 2024 - May 2024)
Arctix Streetwear – Malaysia (Remote)

- Designed and developed a responsive e-commerce website for a local streetwear brand, enhancing customer experience and online visibility.
- Provided ongoing website support and basic SEO optimization.

PROJECTS

Crypto Market Data Engineering Pipeline (Personal Project)

Python, Airflow, PostgreSQL, MinIO, Docker

- Built an end-to-end ETL pipeline to ingest daily cryptocurrency data from the CoinGecko API.
- Orchestrated automated workflows using Apache Airflow for scheduled data processing.
- Implemented layered architecture (Bronze/Silver/Gold) separating raw, cleaned, and analytics-ready datasets.

Spotify Azure Data Engineering Pipeline (Personal Project)

Azure, PySpark, Data Factory, ADLS, Delta Lake, Databricks, Power BI

- Implemented incremental ingestion with Auto Loader and managed schema evolution using Delta Lake.
- Built analytics-ready star schema models (fact & dimension tables) in Databricks.
- Created interactive Power BI dashboards to visualize listening trends, artists, and track insights.

Deep Learning–Based Carbon Credit Estimation From Multispectral Satellite Imagery (FYP)

PyTorch, U-Net++, SAM2, OpenCV, Python

- Designed and implemented a deep learning framework for pixel-level mangrove segmentation from multispectral satellite imagery using U-Net++ with SAM2 assisted mask generation.
- Converted pixel-level segmentation masks into area-based carbon stock and CO₂ equivalent estimates, supporting environmental monitoring and carbon credit analysis.

Traffic Flow Prediction Using Linear Algebra & Machine Learning (Class Project)

Python, NumPy, Scikit-learn, Pandas

- Developed an interpretable time-series forecasting model to predict hourly traffic volume using Least Squares Regression and discrete dynamic systems.
- Engineered lag-based and temporal features (hour, weekday, weather, holidays) and evaluated performance using MAE, RMSE, and R² for real-world transportation analytics applications.

Movie Review Sentiment Analysis (NLP & Transformers) - (Class Project)

Python, Scikit-learn, HuggingFace Transformers, PyTorch

- Built and benchmarked sentiment classification models using TF-IDF + Logistic Regression and DistilBERT (pre-trained and fine-tuned) on the IMDb dataset.
- Evaluated model performance using Accuracy and F1-score, demonstrating the impact of fine-tuning on contextual language understanding.

SKILLS

- **Programming:** Python, SQL, R
- **Data Engineering:** Apache Airflow, Spark, Databricks, PostgreSQL, MinIO
- **Cloud & Data Platforms:** Microsoft Azure (ADLS, Azure Data Factory, Azure Databricks)
- **Tools:** Docker, Git, Power BI
- **Languages:** Bahasa Melayu (Native) and English (Full Professional Proficiency)

CERTIFICATION

CompTIA Data+ (Certified)

(2026)

REFERENCES

TS. DR. DINI OKTARINA DWI HANDAYANI

Assistant Professor, International Islamic University Malaysia, Gombak Campus

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