



# AQIL AIMAN BIN RAFE'E

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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 CO<sub>2</sub> 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 R<sup>2</sup> 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

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- **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

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**CompTIA Data+ (Certified)**

**(2026)**

## REFERENCES

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**TS. DR. DINI OKTARINA DWI HANDAYANI**

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