

Hello. I'm *Zulykha*.

WORK EXPERIENCE

SENIOR ASSISTANT. INTERNATIONAL FEDERATION OF RED CROSS AND RED CRESCENT SOCIETIES (IFRC).

Sep 2023 - Present

- Built and deployed dashboards centralising digital and data initiatives across the RCRC network, improving project visibility and contributor-opportunity matching.
- Developed an internal monitoring system for IT services and consultant assignments, improving resource tracking and operational accountability.
- Designed and supported a Digital Transformation Community of Practice, coordinating stakeholders across the humanitarian network and enabling structured knowledge exchange.

DATA SCIENTIST. NATIONAL STRATEGIC COORDINATION AND ECONOMIC IMPLEMENTATION AGENCY (LAKSANA).

Jan 2023 - Aug 2023

- Engineered end-to-end machine learning pipelines for resource allocation in national assistance programs, including validation workflows and bias-aware dataset balancing across demographic groups.
- Developed and applied NLP pipelines using transformer-based techniques (BERTopic) and classical methods (TextBlob) for large-scale text mining and sentiment analysis on unstructured datasets.
- Maintained and monitored existing production pipelines, implementing routine updates and debugging data drift to ensure model stability.

BUSINESS DATA ANALYST. NATIONAL STRATEGIC COORDINATION AND ECONOMIC IMPLEMENTATION AGENCY (LAKSANA).

Nov 2021 - Dec 2022

- Designed and implemented structured data collection and preprocessing pipelines for national “One Stop Centre” initiatives under the Ministry of Finance, improving data consistency and reporting efficiency.
- Defined data schemas, feature engineering standards, and ingestion templates across multiple government programs to support downstream analytics and modeling readiness.
- Redesigned reporting and visualization workflows, improving accessibility and reliability of operational datasets used for policy and program monitoring.

EDUCATION

MASTER OF DATA SCIENCE (COURSEWORK). UNIVERSITI MALAYA.

- Research Topic: Exploring Period Poverty in Malaysia Through Narrative Visualization using CRISP-DM.
- Major in Data Mining, Big Data Management, Big Data Application and Analytics, Machine Learning with minor in Network and Security and graduated with a CGPA of 3.93 (Distinction).

BACHELOR OF SCIENCE WITH HONOURS. UNIVERSITI MALAYSIA SARAWAK.

- Research Topic: Development of a Mobile Application for Hiring People with Disabilities.
- Graduated with a CGPA of 3.59 (First Class Degree) with major in Cognitive Science, Artificial Neural Networks, Database Management, Artificial Intelligence and minor in Computer Graphics and Web Programming.

SKILLS

PROGRAMMING

Python, R, SQL, C++, MATLAB

ML/AI

scikit-learn, PyTorch, Keras, TensorFlow,
Hugging Face Transformers, BERTopic, TextBlob

NLP & LANGUAGE MODELS

Transformer-based NLP, text classification,
sentiment analysis, topic modeling

DATA VISUALIZATION

Power BI, Tableau, Qlik

DATA ENGINEERING

SQL (MySQL, Microsoft SQL Server),
data preprocessing, feature engineering,

ML METHODOLOGIES

CRISP-DM, supervised and unsupervised
learning, exploratory data analysis