



MUHAMMAD ARIFF BIN AZAHARI

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EXPERIENCES

TotalEnergies EP Sarawak Inc.

DEC 2024 – FEB 2025

Data Management & Analytics Intern

- Facilitated requirement-gathering sessions with stakeholders to define key metrics and data sources for the Safety Critical Element (SCE) Dashboard.
- Engineered an advanced Power BI dashboard, including the SCE Dashboard, ensuring seamless operation and delivering real-time Work Order (WO) monitoring for the entire department.
- Partnered with pillar leads on daily data management initiatives, enhancing lifecycle processes to improve data integrity and streamline workflows.
- Analyzed user behavior, identified inefficiencies, and implemented optimizations, reducing redundant steps and enhancing user experience.
- Validated dashboard insights with engineers and HSSE teams, refining data accuracy and ensuring alignment with safety compliance standards.

SapuraOMV Upstream (Sarawak) Inc.

AUG 2024 – DEC 2024

Data Management & Analytics Intern

- Led the end-to-end development of the HSSE Emergency Response App, from gathering user requirements and designing the system to developing and deploying it on internal servers, ensuring a fast and reliable emergency response platform for the company.
- Collaborated with cross-functional teams and partners to define requirements, prioritize tasks, and document processes, ensuring alignment with organizational goals.
- Conducted competitive analysis to extract insights, informing business decisions and optimizing process implementations.
- Maintained internal systems by assisting with five or more intranet updates, uploading banners, and managing various data-related tasks across departments.
- Resolved 50+ technical support cases, troubleshooting hardware and software issues, minimizing downtime and ensuring smooth daily operations.

PROJECTS

Safety Critical Element (SCE) Dashboard

2025

TotalEnergies EP Sarawak Inc. – Power BI Dashboard – Data Management & Analytics Intern

- Conducted stakeholder requirement-gathering sessions to identify critical metrics and data sources, ensuring data accuracy and regulatory compliance.
- Responsible for developing the Safety Critical Element (SCE) Dashboard using Power BI, saving over RM400k+ company's budget by eliminating the need for outsourcing, and delivering the solution in-house at no additional cost.
- Led the SCE Dashboard development – a comprehensive Work Order (WO) monitoring tool that improved asset performance tracking by 20%, implementing advanced calculations such as bad actor tracking and overdue work order identification to enhance maintenance efficiency.

- Enabled data-driven decision-making by integrating real-time SAP and CMMS data, visualizing key performance trends, improving reporting accuracy by 30% through Power BI.

Health, Safety, Security and Environment (HSSE) Emergency Response App 2024

SapuraOMV Upsteam (Sarawak) Inc. – Web Development – Data Management & Analytics Intern

- Spearheaded user requirement-gathering sessions with HSSE teams to define key functionalities for the HSSE Emergency Response App.
- Designed and built the HSSE Emergency Response App with a quick-access SOS button using HTML, CSS, and JavaScript, enhancing emergency response efficiency for over 200+ employees.
- Deployed and maintained the app on the internal server, achieving 99% uptime and ensuring seamless accessibility for employees.
- Reduced emergency response time by 40% by streamlining incident reporting, improving safety measures for on-site personnel.

Forecasting Carbon Dioxide (CO2) Emission 2023

IIUM – Machine Learning – Team Project

- Implemented the XGBoost tree-based algorithm, achieving over 90%+ accuracy in classification tasks and reducing error rates in regression models for predictive analytics.
- Developed a time series forecasting model using the Prophet algorithm, predicting global CO₂ emissions for the next 10 years with a mean absolute percentage error (MAPE) of less than 5%, enhancing long-term environmental impact analysis.

TECHNICAL SKILLS

Programming: C, C++, Java, Python, R

Data Management: Power BI, SQL (MySQL), SAP (Front End)

Development & Design: Basic Web Development (HTML, CSS, JavaScript), Git, Figma, Canva

Microsoft Suite: Word, PowerPoint, Excel, Power Apps, Power Automate

Familiar with: Data Science, Exploratory Data Analysis, CMMS, Extract-Transform-Load (ETL), Machine Learning, Natural Language Processing, NumPy, Pandas, Scikit, TensorFlow, PyTorch, Big Data, Data Pipeline, CI/CD Pipeline, LLM, Version Control, Git, PI AVEVA, CISCO Packet Tracer, Switch, Router configuration, Smart Contract

CERTIFICATIONS

Introduction to Data Analysis using Microsoft Excel 2024

Datacamp – Introduction to Python 2022

Cisco Networking Academy – CCNA 2022

EDUCATION

International Islamic University Malaysia (IIUM) 2020 - 2025

BSc (Hons.) Computer Science (Major in Data Science & Computational Intelligence)

CGPA 3.42

REFERENCES

*References will be given upon request due to privacy concerns.