MUHAMMAD NAQIUDIN BIN NOOR AFFANDY

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OBJECTIVE

Bachelor of Computer Science graduate with experience of hands-on work in data analysis, artificial intelligence, and web development. Seeking a **full-time** role as a **Data Scientist, Data Analyst, Data Engineer or Software Engineer** starting on **April or May 2025.**

WORK EXPERIENCE

TM Research & Development

Intern Data Science (Internship)   SEP *2024 – JAN 2025*

- **Data Analysis & Preprocessing:** Analyzed and transformed complex datasets, including termination, access networks, CTT, and speed tests, for fault detection and QoS improvement using Python, Excel, Power BI and Jupyter.
- **Machine Learning Implementation:** Developed and fine-tuned Random Forest Regression and LSTM models to forecast internet speeds and predict fault diagnostics, leveraging time-series data for actionable insights.
- **Data Mapping & Automation:** Designed automated workflows for data extraction, mapping, and integration from Camelia TM systems, improving data accuracy and operational efficiency.
- **Agile Collaboration & Presentation:** Contributed to large-scale projects like Camelia.ACTIVE and SPANMS, collaborating in Agile Scrum teams, and delivering comprehensive presentations on findings and models to supervisors and team project.

Technical Skills: Python (Pandas, NumPy, Scikit-learn), Machine Learning (Random Forest, LSTM), Data Visualization (Matplotlib, Seaborn), Excel, Power BI, SQL, Automation (Selenium), Data Mapping, Data Processing, Jira, GitLab, and Agile Methodologies.

EDUCATION

National University of Malaysia (Bachelor of Computer Science (Data Science) with Honors)

Malaysia   *SEP 2021 – APR 2025*

CGPA: 3.68 (First Class Honour)

Dean's List Award: 6 out of 8 semesters

- Volunteering for Malaysian Flood Relief 2021 & BERSZA: Rebuild and Recover, 2022
- Program Leader for SCHOOL@UKM Workshop Prototyping using Figma and Bravo, 2022
- Facilitator for Augmented Reality (AR) Workshop, 2023/24
- 4th Place in E-Sport (Valorant) Piala Dekan - Faculty of Technology & Information Science, 2023
- 4th Place in Football, Piala Dekan, Faculty of Technology & Information Science, 2023
- Bronze Award in AR/VR Reality Competition, Mobile Application Development Club, 2022

Malacca Matriculation College (Physical Science)

Malaysia   *MAY 2020 – MAY 2021*

CGPA: 3.42

- Committee for Badminton Club, 2020/2021
- Silver Award in International Digital Innovation and Invention Challenge (IDIIC), 2021
- Band 3 in Malaysian University English Test (MUET), 2021

PROJECTS

Real-Time Face Mask Detection System Using YOLOv8 and OpenCV(Deep Learning & Web System)

- Developed a YOLOv8-based deep learning model for real-time face mask detection, achieving high accuracy in detecting mask compliance across three categories: With Mask, Incorrect Mask, and No Mask.
- Optimized model performance using AdamW optimizer, customized hyperparameters, and image pre-

processing techniques, improving detection accuracy and reducing false positives.

- Implemented real-time detection using OpenCV and deployed a Flask web application by implementing simple UI using HTML,CSS and JavaScript, enabling both image uploads and live webcam-based detection for interactive user experience.
- Built a scalable and efficient AI system, integrating TensorBoard for training analysis, model validation metrics, and real-time inference, ensuring smooth deployment and usability.

Customer Segmentation Analysis Using K-Means Clustering (Data Science & Machine Learning)
- Analyzed customer behavior using the "Mall_Customer.csv" dataset, applying K-Means clustering to segment customers based on spending patterns and annual income.
- Conducted data preprocessing and Exploratory Data Analysis (EDA) to extract key insights into customer demographics.
- Implemented detailed visualizations using Matplotlib and Seaborn to interpret cluster characteristics and optimize marketing strategies.

Web-Based System for Product Catalog (Web Development)
- Designed and developed a product catalog website utilizing PHP, HTML, CSS, JavaScript, and JQuery and Bootstrap by hosted on UKM's server.
- Using PhpMyAdmin database where worked on SQL and store the data for web system use.
- Implemented a role-based access system, allowing admins, supervisors, and users to manage products, upload images, and generate invoices.

SKILLS

Programming Languages: Python – Java – JavaScript – TypeScript – SQL – PHP – R – C++ – VB.NET – C#
Web Development: HTML – CSS – React – Angular – jQuery – Bootstrap – Django – Flask – XAMPP
Databases & Cloud: Excel – XML – JSON – MariaDB – OracleDB – Microsoft Azure
Data Science & Analytics: Scikit-Learn – Ultralytics – TensorFlow – PyTorch - YOLOv8 – OpenCV – Pandas – NumPy – Seaborn – Matplotlib – Power BI – Tableau – Hadoop – Anaconda – LabelImg – Roboflow
Tools & Software: Git – Linux – PhpMyAdmin – Visual Studio Code – Jupyter Notebook – Jira – Selenium – Bash command – Anaconda
Design & Productivity: Adobe Photoshop – Figma – Blender – Canva – Google Sheets
Languages: English (Professional Proficiency) – Bahasa Melayu (Native Proficiency)

CERTIFICATIONS

Microsoft Certified:
- Azure Data Fundamentals
- Power BI Data Analyst Associate

HackerRank Certified:
- SQL (Intermediate)
- Software Engineer Intern
- Frontend Developer (React)

Asia Pacific University Technology and Innvation Certified:
- Analyzing Data with Power BI

REFERENCE

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