

# MUHAMMAD NAQIUDIN BIN NOOR AFFANDY

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## OBJECTIVE

**Bachelor of Computer Science graduate** with a focus in Data Science, set to complete internship in late January 2025. Experience includes hands-on work in data analysis, machine learning, and web development. Proficient in programming languages, software, and web technologies, seeking a **full-time** role as a **Data Scientist, Data Analyst, Data Engineer or Web Developer** starting **early April or May 2025**. Expected salary as fresh graduate is in the range of **RM3500 to RM5000**.

## WORK EXPERIENCE

### TELEKOM RESEARCH & DEVELOPMENT (TM R&D)

#### 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), SQL, Automation, Data Mapping, Data Processing, Jira, GitLab, and Agile Methodologies.

### WORKSHOP FOR MOBILE APPLICATION DEVELOPMENT CLUB

#### FACILITATOR (FREELANCE)

NOV 2023 – NOV 2023

- **AR Development & 3D Modelling:** Led workshops focused on Augmented Reality (AR) development, utilizing Blender for 3D modelling and Effect House for AR content creation, enhancing participant skills in interactive experience design.
- **Technical Expertise & Instruction:** Delivered hands-on training on key AR concepts, guiding participants through the process of modelling, animating, and integrating 3D assets into AR environments.
- **Professional Development:** Strengthened professional network within the AR and tech community, while refining skills in team collaboration, problem-solving, and creative design.

**Technical Skills:** Blender, Effect House, 3D Modelling, AR Development, Mentorship, Communication, Workshop Facilitation, Creative Collaboration.

## EDUCATION

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

Malaysia

SEP 2021 – JUL 2025

**CGPA: 3.68 (First Class Honour)**

- 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

- 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**

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### **BREAST CANCER PREDICTION USING HOVERNET APPROACH SYSTEM (Deep Learning & Web System)**

- Developed a web-based system leveraging Python and the HoverNet deep learning model for simultaneous segmentation and classification of histopathology images.
- Implemented a deep learning framework to analyze the PanNuke dataset, accurately segmenting and classifying cancerous nuclei for enhanced medical diagnosis.
- Built an interactive web interface using Django, HTML, CSS, and JavaScript to enable seamless access for medical professionals.
- Managed data preprocessing and model training, ensuring high accuracy in cancer cell detection.

### **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, JavaScript, and Bootstrap, hosted on UKM's server.
- Implemented a role-based access system, allowing admins, supervisors, and users to manage products, upload images, and generate invoices.
- Built a responsive and user-friendly interface, ensuring smooth product management and customer interactions.

## **SKILLS**

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**Coding languages:** Python – Java – JavaScript – SQL – PHP – R – Web Programming

**Tools & Software:** Git – Linux – PhpMyAdmin – Visual Studio Code – Jupyter Notebook – Excel – Power BI – Tableau – Adobe Photoshop – Microsoft Power Point – Figma – Blender – React – MariaDB – OracleDB

**Languages:** English (Native Proficiency) - Bahasa Melayu (Native Proficiency)

**Certificate:** Microsoft Certified: Azure Data Fundamentals, Microsoft Certified: Power BI Data Analyst Associate, HackerRank Certified: SQL(Intermediate), HackerRank Certified: Software Engineer Intern, HackerRank Certified: Frontend Developer(React)

## **REFERENCE**

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Zainuddin Bin Lambak

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