AHMAD ADIB BAIHAQI BIN SHUKRI

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SUMMARY

A full-stack developer with skills in data science and AI applications. I combine web development knowledge with data analysis to create effective solutions. Experienced with machine learning tools and techniques to solve real-world problems. A good communicator, fast learner, and team player committed to ongoing professional growth and tackling complex technical challenges.

TECHNICAL SKILLS

Programming Languages and Technologies:
Laravel PHP | HTML | JavaScript | Python | | Power BI | Tableau | Git and GitHub | Hugging Face | ASP.NET | C# |

Frameworks and Libraries:
Laravel | Tailwind CSS | TensorFlow | Hugging Face Transformers | scikit-learn | .NET Framework |

Software and Tools:
Git/GitHub | Power BI (for data visualization) | Jupyter Notebook | Tableau | Microsoft Excel | Docker |

Databases:
MySQL (often used with PHP and Laravel) | Microsoft SQL Server |

Other:
MVC Architecture | Naïve Bayes Algorithm | Data Cleaning & Preprocessing | Statistical Analysis | ETL Processes |

WORKING EXPERIENCE

ROHM ELECTRONICS (MALAYSIA) SDN. BHD.   Kota Bharu, Kelantan
System Engineer   *December 2024 – Present*

- **Led end-to-end development** of the **Wafer Storage System** using ASP.NET, C#, and SQL Server Management System (SSMS), enabling precision tracking of wafer movement between chip bank and subsequent processes.
  - **Implemented real-time** inventory visibility that significantly reduced wafer misplacement incidents and improved process handoff efficiency.
- **Architected and deployed a Tag Out/Lock Out (LoTo) System** using ASP.NET, C#, and SSMS, establishing a critical safety protocol for maintenance operations across manufacturing facilities.
  - **Enhanced workplace safety** by ensuring proper machine lockout procedures and providing maintenance technicians with digital documentation, **replacing the previous paper-based system**.

ROHM ELECTRONICS (MALAYSIA) SDN. BHD.   Kota Bharu, Kelantan
Software Engineer (Internship)   *March 2024 – June 2024*

- **Efficient Data Handling:** Managed the transfer of files and documents between devices, ensuring smooth access.
  - **Achievement**: Reduced data transfer time by 25%.
- **Project Leadership**: Led the design and implementation of a comprehensive spare part management system for the EDS department. Utilized Laravel PHP, HTML, Bootstrap CSS, and JS for development.
  - **Achievement**: Significantly improved inventory tracking and reduced part retrieval time by 40%, enhancing operational efficiency.

PEJABAT PENDIDIKAN DAERAH KOTA BHARU (PPDKB)   Kota Bharu, Kelantan
ICT (Internship)   *September 2021 – February 2022*

- **Technical Support Leadership:** Directed the troubleshooting and resolution of complex technical issues for over 200 staff members at PPDKB, effectively minimizing downtime and optimizing productivity
  - **Achievement**: Achieved a notable 30% reduction in technical issue resolution time.
- **User Training and Support:** Provided comprehensive training sessions and one-on-one support to staff, resulting in a significant enhancement of technical proficiency.
  - **Achievement**: 40% decrease in support requests, indicating improved user competency.
- **System Development:** Developed a custom file management system for Buku Rekod Perkhidmatan (BRP), which centralized and digitized service records for over 5000 teachers across Kota Bharu.
  - **Achievement**: Streamlined record-keeping processes, saving approximately 20 hours of administrative work per week.

HIGHLIGHTED PROJECTS

Automated Text Summarization System Using Transformer Models
- **Designed and implemented** an **automated text summarization tool** capable of generating concise summaries from lengthy documents and articles (**Python, Hugging Face Transformers, Streamlit)**
- **Utilized a pre-trained transformer model (BART)** from Hugging Face for generating accurate text summaries, while still learning about transformers and their application in NLP tasks.
- **Created** a functional web application interface using **Streamlit** to practice deploying NLP solutions in an interactive environment
- **Gained practical experience** in transformer architecture, fine-tuning parameters, and evaluating summary quality through hands-on experimentation.

Inventory Management System
- **Led the design** and **implementation** of a comprehensive inventory management system specifically for spare parts in the EDS department. (Laravel PHP, HTML, Bootstrap, CSS, and JavaScript)
- **Automated inventory tracking and stock control** processes, reducing manual errors and improving efficiency by 25%.
- **Improved user experience** with a responsive, mobile-friendly design, enabling staff to manage inventory from multiple devices.

Airline Flight Delay Prediction using Naïve Bayes Algorithm
- **Developed a predictive model** for airline flight delays using the **Naïve Bayes algorithm**.
- **Conducted** a performance comparison between **Gaussian Naïve Bayes** (GNB), **Support Vector Machine** (SVM), and **K-Nearest Neighbors** (KNN).
- The **GNB** model achieved the highest **accuracy at 92%** and an **ROC AUC score of 96%,** outperforming both KNN and SVM (Python, Machine Learning)

Flower Recognition Using Artificial Neural Network (ANN)
- **Developed and implemented** a sophisticated ANN model to accurately detect and classify images of five different flower types: daisies, dandelions, roses, sunflowers, and tulips (Python)
- **Trained the ANN model** on a large dataset of flower images, achieving a high level of accuracy in classifying flower species.
- **Actively experimenting with ANN architecture and fine-tuning hyperparameters** to optimize model accuracy and performance, with a focus on improving results for future image classification tasks.

Employee Payroll Management System
- **Designed and developed** an Employee Payroll Management System using Java Enterprise technologies, implementing the Model-View-Controller (MVC) architecture. (Java EE, HTML, CSS, JS)

A Detailed Study of Twitch Game Streaming Data
- **Conducted** an in-depth analysis of Twitch game streaming data, utilizing **Power BI** for data visualization.
- **Created interactive dashboards** and **visual reports** to uncover trends, patterns, and insights related to viewer engagement, popular games, streamer performance, and audience demographics.

EDUCATION

UNIVERSITI TEKNOLOGI PETRONAS (UTP)
Master of Science in Data Science

Bandar Seri Iskandar, Perak
May 2025 – Present

UNIVERSITI TEKNOLOGI MARA (UITM)
Bachelor of Computer Science (Big Data Track)

Kuala Terengganu, Terengganu
Mar 2022 – July 2024
- CGPA: 3.49
- Obtained **dean's list award** during semester 5.

UNIVERSITI TEKNOLOGI MARA (UITM)
Diploma in Computer Science

Machang, Kelantan
2019 - 2021
- CGPA: 3.77
- Obtained **dean's list award** during semester for 5 out of 5 semesters.
- Graduated with **Vice Chancellor Award (ANC)**

CERTIFICATIONS

Foundations of Agents (Hugging Face) — May 2025 [Link]
Fundamentals of LLM (Hugging Face) — May 2025 [Link]
Introduction to Git and GitHub (Google, Coursera) — Apr 2024 [Link]
Android Certified Application Developer (Android ATC) — Mar 2022 [Link]

AWARDS/ ACHIEVEMENTS

[International] 2024 Open International Innovations Challenge UiTM Cawangan Pulau Pinang, Malaysia - Gold Award (September 2024) [Link]

Dean's Award
- Session 2 2022/2023 - 5th Semester (Degree)
- Session 1 2019/2020 - 1st Semester (Diploma)

- Session 2 2019/2020 - 2nd Semester (Diploma)
- Session 1 2020/2021 - 3rd Semester (Diploma)
- Session 2 2020/2021 - 4th Semester (Diploma)
- Session 1 2021/2022 - 5th Semester (Diploma)

Vice Chancellor Award (Diploma)

REFERENCES

Norulhidayah Binti Isa (norul955@uitm.edu.my) – (Academic Advisor) College of Computing, Informatics and Mathematics, Universiti Teknologi Mara (UiTM) Kuala Terengganu

Ts. Dr Syarifah Adilah Binti Mohamed Yusoff (syarifah.adilah@uitm.edu.my) – (FYP Supervisor) College of Computing, Informatics and Mathematics, Universiti Teknologi Mara (UiTM) Cawangan Pulau Pinang