AHMAD ADIB BAIHAQI BIN SHUKRI

Kota Bharu, Kelantan • adibbaihaqi11@gmail.com • 014-8281495

• https://www.linkedin.com/in/adib-baihaqi-46793818b • https://github.com/adib-baihaqi • https://dibo.dev

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:
HTML | JavaScript | Python | | Power BI | Tableau | Git and GitHub | Hugging Face | ASP.NET | C# |

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

Software and Tools:
Git/GitHub | Power BI | Jupyter Notebook | Tableau | Microsoft Excel | Docker | Kubernetes| Hive

Databases:
MySQL | Microsoft SQL Server | NoSQL |

WORKING EXPERIENCE

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

- **Built a real-time ETL pipeline** for wafer inventory tracking using C# and SQL Server, enabling precision tracking of wafer movement between chip bank and subsequent processes.
  - Led end-to-end development including data model design, API development for scan events, and database optimization.
  - Implemented data validation and state transition logic to ensure data integrity, reducing wafer misplacement incidents.

- **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**.

- **AI Computer Vision & Automation**: Developed and deployed an automated quality assurance system using **YOLO** to detect and verify packaging procedures in real-time.
  - Designed the end-to-end vision pipeline, including dataset collection, model training, and integration with production line cameras to ensure procedural compliance.
  - **Improved operational accuracy** by automating visual inspections, **reducing human error** in the packaging phase.

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

HIGHLIGHTED PROJECTS

Master's Thesis: Multi-Modal LLM Framework for Engineering Documentation [In Progress]
- Developing a multi-modal Large Language Model framework **integrating RAG architecture for automated technical information retrieval** from engineering documents, diagrams schematics.
- Implementing end-to-end NLP pipeline with vector databases **for semantic search and context-aware information extraction** from complex technical documentation.
- **Technologies:** Python, LangChain, Hugging Face Transformers, FAISS

Esport (Valorant) Champions 2025 Match Prediction Model [Link]
- **Developed a machine learning ensemble model** combining **Random Forest**, **Gradient Boosting**, and **Logistic Regression** to predict Valorant Champions Tour match outcomes with **75.6% cross-validation accuracy** across 6,000+ professional matches (**Python, Numpy, Pandas)**
- **Implemented robust data pipeline** processing multi-region datasets (Americas, EMEA, Pacific, China) using Pandas and NumPy for data aggregation and transformation.

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.

Airline Flight Delay Prediction using Naïve Bayes Algorithm
- **Developed a predictive mode**l 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)

EDUCATION

UNIVERSITI TEKNOLOGI PETRONAS (UTP)   Bandar Seri Iskandar, Perak
Master of Science in Data Science   *May* 2025 – *Present*
- CGPA: 3.92

UNIVERSITI TEKNOLOGI MARA (UITM)   Kuala Terengganu, Terengganu
Bachelor of Computer Science (Big Data Track)   *Mar* 2022 – *July* 2024
- CGPA: 3.49
- Obtained **dean's list award** during semester 5.

UNIVERSITI TEKNOLOGI MARA (UITM)   Machang, Kelantan
Diploma in Computer Science   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