Muhd Alif Asyraf b. Mohd Azlan

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Professional Summary

Maybank Scholar and Intelligent Systems Engineering undergraduate with ML project and PETRONAS delivery experience. Confirmed Maybank internship from March 2027; seeking AI/ML team allocation. Willing to extend the university-required three months to six months, subject to university approval.

Education

MARA University of Technology — Shah Alam, Selangor
Bachelor of Information Systems (Hons.) Intelligent Systems Engineering — *March 2025 – Present*
- CGPA: 3.89/4.00; Maybank Group Scholarship 2025 Recipient; Maybank Student Ambassador 2026.

MARA University of Technology — Segamat, Johor
Diploma in Computer Science — *Oct. 2022 – Feb. 2025*
- CGPA: 3.89/4.00; Vice-Chancellor Award; Computer Science Association Vice-President.

AI/ML Projects

SHIELD | *Python, XGBoost, SHAP, LLM, FastAPI, PostgreSQL, Docker, Next.js* — 2026
- Built a company-bankruptcy prediction prototype on 6,819 records, comparing Random Forest and XGBoost with 20 selected versus 95 financial predictors.
- Used five-fold cross-validation and training-fold-only SMOTE to evaluate precision–recall tradeoffs; integrated SHAP to explain individual predictions.
- Implemented prediction histories with FastAPI, async SQLAlchemy and PostgreSQL; integrated LLM-generated reports based on model outputs and SHAP values.

BioGuard | *Python, TensorFlow/Keras, FastAPI, React Native, SQLite* — 2026
- Built a nine-species plant-identification prototype connecting TensorFlow/Keras inference to a mobile app, with confidence flags for human review.
- Compared MobileNetV2, MobileNetV3 Large and EfficientNetV2-B0 using augmentation and transfer learning; validation-selected EfficientNetV2-B0 achieved macro-F1 0.855 on a 380-image historical test set.
- Packaged an Android test app with reporting and review workflows designed for grounds staff, ecology reviewers and management.

NoteLah | *TypeScript, Next.js, Electron, SQLite, Ollama, Hybrid RAG, AI Agents* — 2026
- Built a local-first desktop workspace for task tracking, notes, and PDF/Markdown imports, enabling offline organization with complete backup and restore.
- Implemented hybrid RAG using Nomic embeddings, BM25, vector similarity, and Reciprocal Rank Fusion; generated answers with source references through a local Qwen LLM.
- Developed an AI agent that combines task data and retrieved notes to turn natural-language goals into actionable checklists and daily plans, enabling users to review and approve task creation and scheduling directly in Chat.

Professional Experience

Game Developer and Business Analyst Intern — Sep. 2024 – Feb. 2025
Petroliam Nasional Berhad (PETRONAS) — *KLCC, Kuala Lumpur*
- Developed 3 educational 2D games in GameMaker Language with subject-matter experts across 5+ departments, distributing games through the company intranet and events.
- Delivered safety games used in HSE training and a sustainability game showcased at the PETRONAS Sustainability Summit (500+ attendees), explaining one pillar supporting the company's Net-Zero Carbon 2050 goal.
- Researched 10+ local oil and gas technology SMEs and presented findings to management to support vendor sourcing and pitching opportunities.

Certifications & Technical Skills

Languages & Databases: Python, SQL, JavaScript, Java, C++; PostgreSQL, Oracle DB, MongoDB
ML & APIs: Random Forest, XGBoost, TensorFlow/Keras, SHAP, pandas, NumPy, Matplotlib, FastAPI
Platforms & Tools: Docker, Git/GitHub, Azure AI Foundry, GCP, RStudio, Power BI, Excel
Certification: Google Data Analytics

References

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