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Computer Engineering graduate specializing in Computational Intelligence, with hands-on experience in deep learning, NLP, and computer vision. Proven ability to design, train, and deploy AI models—from document collaboration agents (CollabGPT) to embedded vision systems (STM32 AI). Passionate about optimizing ML workflows and delivering scalable AI solutions. Recognized for innovation (Bronze Medal, INOTEK) and academic excellence (Dean's List).

EDUCATION

Universiti Teknikal Malaysia Melaka (UTeM), Malacca, Malaysia

Bachelor of Computer Engineering with Honours

Sep 2021-Present

CGPA: 3.50 — Key Courses: AI, Computer Vision, Image Processing, Operating Systems, HPC, Computer Network Systems, Embedded Systems

Center of Foundation Studies (UiTM), Dengkil, Malaysia

Foundation in Science

Jun 2020-Apr 2021

CGPA: 3.45 — Focus: Mathematics, Physics, Chemistry

SKILLS

Languages: Python, Swift, C++, JavaScript, C#, HTML, CSS

Frameworks/Tools: TensorFlow, Scikit-learn, CoreML, Flask, OpenCV, Create ML, GitHub, ChatGPT

Platforms: Docker, Firebase, NodeJS, Linux, Windows, macOS

PROJECTS

CollabGPT - AI Agent for Document Collaboration (WIP) (LangChain, RAG, LLM, Python) May 2025-Present

- Built an AI document assistant using LangChain, RAG, and LLMs to summarize edits, detect conflicts, and suggest improvements in real-time.
- Integrated Google Docs API for change monitoring and GPT-based models for contextual recommendations across collaborative workflows.

smAIrtColorizer - AI Image/Video Colorization (Python, Flask, TensorFlow, Swift)

Apr 2025

- Implemented deep learning models to colorize grayscale images/videos; deployed in a native iOS application.
- Integrated TensorFlow models with Flask backend and Swift UI for real-time media processing.

QuranicJar - Emotion-aware Quranic Recommendation (NLP, Swift)

Mar 2025

- Built NLP-driven app to classify user emotions and retrieve Quranic verses using CoreML/Create ML.
- Fine-tuned native ML models for emotion prediction.

STM32 AI – Embedded AI for Image Recognition (ML, Embedded Systems)

Apr~2024

- Deployed lightweight image classifiers on STM32 microcontrollers using Teachable Machine and STM32Cube.
- Implemented real-time object detection on low-powered embedded systems with 80%+ inference accuracy.

RasaRadar – Malaysian Food Classification App (Vision, ML, Swift)

Mar 2025

- Developed a mobile app using CoreML and Vision frameworks to identify local cuisines via image input.
- Achieved 94.2% training accuracy and 93.2% validation accuracy in Malaysian food classification.

EXPERIENCE

Engineer Intern, SMK Electronics (M) Sdn Bhd

Jul 2024-Sep 2024

- Developed a barcode inspection system for future deployment to reduce manual errors and tact time.
- Enhanced an LCD Vision Inspection system for real-time defect detection in PCB manufacturing; reducing PCB defect inspection time by 14% saving RM2,663 annually

CERTIFICATIONS

IBM Machine Learning Specialization

IBM, Apr 2025

- Learned regression, classification, clustering, and deep learning in Python; developed models with 90%+ accuracy on real-world datasets.

AI for MY Future

Microsoft & Mereka, Apr 2025

- Gained proficiency in Microsoft's AI tools, responsible AI practices, and generative AI applications for business solutions.

My5G Pioneers Programme

Ericsson Malaysia, Apr 2025

- Completed training in 5G integration with AI, IoT, and edge computing for real-time ML inference in industrial settings.

Cyber Threat Management

Cisco, Apr 2024

Learned about network anomaly detection and security monitoring in cyber threat management.

HONORS & AWARDS

- Bronze Medal INOTEK Innovation Competition, UTeM (Jun 2024)
- FTKEK Dean's List 4 Consecutive Semesters (2022–2024)