MUHAMMAD AMAR SYAKIR BIN MAZLAN

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SUMMARY

Final-year Bachelor of Computer Science (Artificial Intelligence) with Honours student with a strong foundation in core software engineering, machine learning workflows, and data processing pipelines. Technical background includes building real-time multi-stream tracking systems using YOLOv8, developing web applications using Flask and FastAPI, and deploying backend inference systems to cloud platforms. Combines versatile software development capabilities with a practical background in corporate external relations and micro-enterprise operations. Seeking a technical internship to apply my skills in computer science, data engineering, and artificial intelligence to deliver practical technical solutions.

EDUCATION

Universiti Teknikal Malaysia Melaka (UTeM) **2023 - Present**

- Bachelor of Computer Science (Artificial Intelligence) with Honours

PROJECTS

AI-Based Smart Traffic Violation Detection System | Final Year Project | In Development

- Real-Time Video Analytics: Building a multi-camera monitoring system that processes 4 concurrent streams at ~30 FPS using YOLOv8, ByteTrack, and dynamic frame skipping to optimize processing efficiency.
- Speed Detection Engine: Developing a vehicle speed tracking application using pixel-to-meter scaling geometry and exponential smoothing filters to map trajectories accurately.
- Latency Optimization: Reducing model inference delays by implementing an asynchronous, multi-threaded Automatic License Plate Recognition (ALPR) pipeline utilizing PaddleOCR.
- Dashboard Interface: Constructing a central administrative interface using Flask, SQLite, and Chart.js to display live video feeds, system processing metrics, and violation logs.

SiasatAI: Bilingual Misinformation Detection System | Data Science Project

- Live Application: https://misinformation-detection-system.vercel.app/
- End-to-End Deployment: Programmed a bilingual text classification application optimized for MBMB to identify local rumors and news reports in both Bahasa Malaysia and English.
- Data Engineering: Automated text data extraction using Python web scraping scripts to build and clean a bilingual dataset comprising 64,000+ text records.
- Model Deployment: Selected a regularized Logistic Regression model achieving a 93.99% validation accuracy, deploying the system via FastAPI on Vercel Serverless CDN to ensure sub-2ms response times.

SKILLS

- Programming: Python, C++, SQL, Git, Linux/Bash
- AI & Machine Learning: YOLOv8, ByteTrack, PaddleOCR, OpenCV, Scikit-learn, Computer Vision, NLP
- Data & Analytics: pandas, Data Analysis (EDA), Web Scraping, Power BI, Tableau, SQLite
- Web & Cloud: Flask, FastAPI, REST APIs, Chart.js, Vercel
- Languages: Bahasa Melayu (Native), English (Fluent)

WORK EXPERIENCE

Freelance Graphic Designer | Self-Employed **2023 – Present**

- Create simple posters, logos, and promotional graphics for small business clients, and student assignment requests.
- Communicate directly with clients to gather requirements and make requested design edits.
- Prepare digital and print-ready files and deliver completed work on schedule.

Private Tutor | Self-Employed **2021 – Present**

- Teach primary and secondary school students core academic subjects, helping them understand difficult topics.
- Prepare custom worksheets, study notes, and practice exercises tailored to each student's pace.
- Communicate regularly with parents to share updates on student progress and test performance.

CERTIFICATIONS

- Official AI Ambassador – Faculty of Artificial Intelligence & Cyber Security (FAIX), UTeM
  - Appointed by the Vice-Chancellor to promote AI literacy and ethical technology adoption across campus and the community.
- Google Data Analytics Professional Certificate – Google (Coursera)
- AI Ready ASEAN Professional Certificate – ASEAN Foundation & Google.org
- Oracle Academy Graduate – Database Foundations – Oracle Academy & UTeM
- DataCamp Certifications – Web Scraping in Python, Power BI, pandas, Prompt Engineering
- MathWorks Training – MATLAB Onramp, Optimization Onramp, Introduction to Linear Algebra with MATLAB

LEADERSHIP & EXTRA-CURRICULAR INVOLVEMENT

Exco Hubungan Luar (External Relations Executive) | Kelab FASASI UTeM | 2025/2026

- Coordinated communication between the club, university administration, and external partners for club activities.
- Assisted in UTeM Orientation Week as part of the Residential & Discipline Sub-Committee, supporting student accommodation and discipline coordination.

Event Management Committee Member | Artificial Intelligence Club (AIC), UTeM

- Managed program coordination, participant communication, and event preparation to ensure smooth execution of the program organized by the club.
- Assisted in the MBMB-UTeM Minecraft Competition at Swiss-Garden Hotel Melaka, supporting registration, participant coordination, and event operations.

REFEREES

Ts. Dr. Sazalinsyah Bin Razali — Academic Advisor

- UTeM | sazalsinysah@utem.edu.my | 017-279 7935

Nur Diana Izzani Binti Masdzarif — Final Year Project Supervisor

- UTeM | diana.izzani@utem.edu.my | 011-370 0117