

SYAHMI AMIN BIN SHAMSUL

COMPUTER SCIENCE STUDENT

Puchong, Selangor, Malaysia • +60108898500 • sabin.shamsul@gmail.com

 [linkedin.com/in/sabinshamsul](https://www.linkedin.com/in/sabinshamsul)  github.com/sabinshamsul  sabinshamsul.dev

SUMMARY

Final Year Computer Science student specialising in Data Science and Artificial Intelligence with a current CGPA of 3.35/4.00. Hands-on experience building and deploying Machine Learning models, RAG/LLM pipelines & full-stack applications, both in academic and industry settings. Seeking a full time **AI Engineer**, **ML Engineer**, **Data Science** or **Software Engineering** entry-level, junior role or graduate program to contribute to real-world solutions. **Available from January 2027 onwards.**

EDUCATION

Bachelor of Computer Science (Honours) | Specialisation in Data Science | Extension in AI

Taylor's University, Malaysia

February, 2024 - Present

- **Expected to Graduate:** January, 2027
- **Availability:** Available to start full-time from 11 January 2027
- **Current CGPA:** 3.35/4.00

WORK EXPERIENCE

Software Engineering & Data Analytics Intern

Cashku | Advisonomics Sdn Bhd

July, 2026 - Present

- Working in a fast-paced Agile team with daily stand-ups & 2-week sprints tracked on Jira, taking ownership of AI-powered features for a fund intelligence tool that helps users understand & analyse their investments.
- Authored & executed 5+ structured UAT test cases for fund analytics reporting tool, verifying results against the backend database to catch data discrepancies.

Undergraduate Research Assistant - FitFuel Station Research Project

Taylor's University, Malaysia | INNOVATE Grant

January, 2026 - April, 2026

- Contributed to an AI-driven vending system that translates a user's body composition into individualised nutrition recommendation.
- Validated nutrition recommendation algorithms against real user data, directly impacting the personalisation of food-customisation before deployment.

RELEVANT PROJECTS

MediVision - Smart Patient Flow Platform for Hospital Emergency Departments (Final Year Project)

GitHub: github.com/sabinshamsul/medivision-dashboard

- Led a 5-member team to develop & deploy an AI-powered healthcare platform while personally owning the API layer (Node.js/Express), hosted the ML triage model (HuggingFace), deployed the website on Vercel (frontend) & Render (backend), & set up the MongoDB Atlas for the database.
- Deployed an XGBoost-powered triage model via FastAPI, giving Emergency Department staff a data-driven way to prioritise incoming patients faster.

Bone Fracture Detection using Computer Vision

- Fine-tuned EfficientNetB0 using transfer learning on X-ray image datasets for fracture classification.
- Implemented Grad-CAM visual explainability techniques to improve model interpretability & deployed on Hugging Face, achieving 86% classification accuracy.

AI-Governance RAG

- Built a Retrieval Augmented Generation (RAG) pipeline from scratch over 5200 AI-governance documents, combining sentence-transformers embeddings, FAISS vector search & Gemini for grounded, source-cited answers.
- Engineered prompt-based grounding & a retrieval relevance threshold to prevent hallucination & deployed an interactive demo on Hugging Face.

SKILLS

- **Languages:** English (Advanced Proficiency), Malay (Native)
- **Programming Languages:** Python, R, SQL, Java
- **Machine Learning:** Scikit-learn, TensorFlow, PyTorch, Deep Learning, NLP, Computer Vision, Classification, Clustering, Regression
- **Data Analytics:** Pandas, NumPy, Tableau, Data Visualisation, Exploratory Data Analysis
- **Web Development:** React, Vite, Tailwind CSS, Node.js, Express.js, MongoDB Atlas
- **Tools & Platforms:** Jupyter, PyCharm, Visual Studio Code, Tableau, GitHub, Hugging Face, AWS, Jira