



CHIAM YU WEI

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About Me

Dedicated and passionate AI engineering student seeking an entry-level position to apply machine learning, model optimization, and deployment skills. Strong background in deep learning, time-series modeling, and AI applications, with hands-on experience in real-world projects and cross-functional collaboration.



[Github.io/yuwei0410](https://github.io/yuwei0410)



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Selangor, Malaysia

Languages

- English
- Mandarin
- Malay

Skills

- Python, Java, SQL
- Tensorflow, Pytorch
- Microsoft Azure, Google Colab, HuggingFace
- Power BI

Experience

Stock Trading QA Chatbot with QLoRA and RAG (04/2025 - 05/2025)

- Fine-tuned TinyLlama-1.1B-Chat model using QLoRA with 4-bit NF4 quantization for memory-efficient deployment.
- Built a Retrieval-Augmented Generation (RAG) pipeline with FAISS vector database and MiniLM embeddings using LangChain.
- Applied optimization techniques including gradient checkpointing, LoRA adapters, and quantization-aware training.

Data Scientist Intern at Evonik (08/2024 - 01/2025)

- Developed ML model to identify trend change points in business time-series data for strategic planning.
- Implemented autonomous anomaly detection system with custom algorithms, replacing legacy Microsoft Anomaly Detector.
- Deployed monthly alert automation system to notify financial controllers of abnormal costs.

Final Year Project (09/2023 - 08/2024)

- Developed a hybrid model combining Particle Swarm Optimization (PSO) and LSTM for improved time-series prediction.
- Integrated sentiment analysis and financial indicators to improve forecasting robustness.

ML model for Covid-19 Ventilator Control Forecasting (04/2022 - 07/2023)

- Solved a time-series forecasting problem from Kaggle's Google Brain Ventilator Pressure Prediction competition.
- Built an ensemble of ML models to increase accuracy in dynamic pressure control predictions.

Education

Bachelor of Engineering in Artificial Intelligence (Honours) (04/2021 - 03/2025)

- Xiamen University Malaysia (XMUM)
- Main courses: Advanced Machine Learning, Deep Reinforcement Learning and Control, Computer Vision and Robotics
- CGPA: 3.52 / 4.00 (Top 30% in the batch)

Extra-Curricular

XMUM AI club (09/2023 - 09/2024)

- Co-founder and Executive Committee

References

Mr. `Arif Amin Ahmad Puzi

- Senior Expert in Data Analytics & Internship Supervisor
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