

Htet Khaing Win

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Professional Summary

Machine learning engineer skilled in **Python, NumPy, PyTorch, TensorFlow**, and scalable ETL pipelines. Experienced in **deep learning, computer vision, CUDA**-accelerated processing, and real-time deployment. Strong in statistical modelling, optimization, **Git**, and developing high-performance workflows that transform complex data into actionable results.

Experience

Docentron Pte. Ltd.

Apr. 2025 - Jun.2025
Singapore

Project Management & Mobile App Design Intern

- Coordinated **Agile** educational mobile game projects by gathering client requirements, scheduling tasks, and tracking progress through **Jira**.
- Translated client requirements into technical specifications and feature prototypes.
- Prepared technical documentation for **UAT**, deployment, and maintenance.

Relevant Skills

ML Frameworks & Libraries: PyTorch, TensorFlow, Keras, Scikit-learn, Hugging Face, OpenCV, Matplotlib, Seaborn, LangChain

MLOps & Deployment: Docker, CI/CD, FastAPI, Streamlit, FAST API

Model Deployment & Data: Python, Pandas, NumPy, SQL (PostgreSQL, MySQL, SQLite), Git/GitHub, Linux/Bash, ETL

Optimization: CUDA/Parallel Processing, Hyperparameter Tuning, CNNs, Transfer Learning, Statistical Modeling

Relevant Projects

AI Generated Content Detection | PyTorch, FFmpeg, X3D-M

Oct 2025 - Nov.2025

- Engineered an **end-to-end AI generated content detection ETL pipeline**, processing **200K+ videos**.
- Increased frame extraction throughput**, improving extraction time from **55+ hours to less than 7 hours** using hybrid **GPU/CPU multiprocessing pipeline** with **CUDA-accelerated FFmpeg**.
- Cut preprocessing time by **87%** turning a multi-day bottleneck into a single-session workflow.

Facial Emotion Recognition | TensorFlow, Keras, OpenCV, Streamlit, Docker, Hugging Face

Sep. 2025 - Oct. 2025

- Boosted model validation accuracy by **7%** through hyperparameter tuning.
- Engineered an end-to-end ML pipeline leveraging **MobileNetV2** and **VGG16** architectures.
- Achieved 22% lower inference latency** by deploying real-time inference app with **OpenCV** and **Streamlit**.

Wine Quality Analysis | Python, Weka, Pandas, NumPy, Matplotlib

May. 2024 - Aug.2024

- Improved classification accuracy for wine quality using predictive models (Random Forest, Naive Bayes, SVM).
- Preprocessed data in Python/Weka, optimizing feature extraction and performance analysis.

Google Playstore Business Dashboard | Excel, Power BI, DAX

Apr. 2025

- Designed Power BI dashboards visualizing app engagement and KPI trends.
- Developed DAX-driven models that increased data accuracy and analytical efficiency.

Education & Professional Credentials

James Cook University Singapore

Master of Information Technology - Distinction | GPA: 6.17

Singapore

Concentrations: **Algorithms, E-Security, Research, HCI**

University of Greenwich

Bachelor of Science - First Class Honours | GPA: 4.0

Yangon, Myanmar

Concentrations: **Project Management, Web Development, Android Software Development**

United Nations Development Programme (UNDP)

Frontier Tech Leaders Programme – Agentic AI Training (In Progress)

Dec. 2025

DeepLearning.AI

Neural Networks and Deep Learning

Nov. 2025