

HEIN HTET @ JEREMY

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Results-oriented Research Assistant and aspiring Machine Learning Engineer with 2+ years of experience developing and implementing innovative AI solutions using TensorFlow, PyTorch, and Hugging Face. Proven ability to research, develop, and evaluate Deep Learning, Computer Vision (Object Detection), and Large Language Model (LLM, GPT, BERT, LLaMA) applications, including LVM and Textual Analytics. Expertise in leveraging cloud-based ML deployment platforms (AWS, Google Cloud, and Azure) to solve real-world problems. Passionate about contributing to a team focused on practical AI development and innovation, applying strong collaboration, communication, and problem-solving skills. Solid foundation in probability and statistical modeling.

SKILLS

Technical Skills: Python, PyTorch, TensorFlow, Hugging Face, LLMs, GPT, BERT, LLaMA, Computer Vision, Object Detection, C/C++, MLOps, OpenCV, NLP, GAN, Diffusion Model, MATLAB, ROS, Docker, Innovation, Collaboration, Communication, Problem-solving, Leadership, Large Language Models (LLMs), LVM, Natural Language Processing,

Textual Analytics, Generative Adversarial Networks, AWS, Amazon Web Services, Google Cloud Platform (GCP), Azure, Cloud Computing, Cloud-based ML Deployment, Probability, Statistical Modeling, Problem-Solving

Soft Skills: Innovation, Collaboration, Communication, Problem-solving, Leadership

EXPERIENCE

Research Assistant, *KMUTT Deep Learning Lab*

Sept 2022 - Present

- Researched and implemented Deep Learning models for Voice Conversion, NLP, Computer Vision, and Graph Convolution Networks.
- Applied GANs and Diffusion Models for image generation and manipulation.
- Collaborated with National Science and Technology Development Agency (NSTDA) on Deep Learning research projects.
- Served as a Teacher Assistant for a Deep Learning Bootcamp, guiding students on practical implementation and model optimization.

Student Researcher, *Singapore University of Technology and Design (SUTD)*

June 2024 - Present

- Benchmarked LLMs (OpenAI, Llama3, Mistral, Gemini AI) for Qualitative Analysis applications using Ollama and LLM Studio.
- Fine-tuned transformer models for specific NLP tasks, improving performance and efficiency.

Student Researcher, *Singapore Panasonic Research Lab*

Oct 2023 - Present

- Led the ORB-SLAM Refactoring project, overseeing a team and ensuring successful implementation.
- Refactored SLAM algorithms, OpenCV, and Sparse Bundle Adjustment algorithms using C/C++.
- Applied Linear/Non-Linear Optimization techniques to enhance performance and efficiency of SLAM algorithms.

Founder, *CLASH OF ROBOTS*

Sept 2018 - Present

- Founded the first robotics competition in Myanmar, fostering a community of robotics enthusiasts and promoting STEM education.

EDUCATION

Electronic and Infocommunication Engineering (Year 3), *King Mongkut's University of Technology Thonburi (KMUTT)*
Thailand

2022 - Present

Electronics Engineering, *WEST YANGON TECHNOLOGICAL UNIVERSITY*
Yangon

2015-2020

PROJECTS

ORB_SLAM Refactoring

Refactored and optimized ORB-SLAM algorithms using C/C++ and OpenCV, improving performance and maintainability.

Technologies: C/C++, OpenCV, SLAM

Voice Conversion For Alaryngeal Speakers using WavLM, KNN VC

Developed a voice conversion system for alaryngeal speakers using WavLM and KNN VC, improving communication accessibility.

Technologies: WavLM, KNN VC, Voice Conversion, Deep Learning

Burmese GPT using Llama2 Model and WordPiece BPE Tokenizer

Built a Burmese GPT model using Llama2 and WordPiece BPE Tokenizer, enabling natural language processing in Burmese.

Technologies: Llama2, WordPiece BPE, NLP, LLMs