

Raden Muhammad Mu'az bin Muhammad Mun'im

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Education

Universiti Teknologi Malaysia

B.Eng Electrical - Mechatronics - CGPA 3.76/4.00 9/2012 – 10/2016

→ Final Year Project: "Application of Simultaneous Localisation and Mapping in Automated Guided Vehicle Robot" [[pdf](#), [poster](#)]

Tokyo Institute of Technology (東京工業大学)

M.Eng Computer Science - CGPA 3.21/4.00 4/2018 – 3/2020

→ Dissertation: "Model Compression for Deep Learning" [[pdf](#)]

Work Experience

Shinoda Lab, Tokyo Institute of Technology

Research Assistant 12/2018 – 1/2019

Research Assistant 10/2019 – 2/2020

→ Research for Master's degree dissertation, on model compression with knowledge distillation training for speech-to-text models.

Institute of Infocomm Research (I2R), A*STAR Singapore

Research Assistant 3/2019 – 9/2019

→ Research internship for pruning-based model compression for image classifier models.

King Abdullah University of Science and Technology (KAUST)

Visiting Student 5/2020 – 9/2020

→ Research internship on few-shot learning.

Aonic (Formerly Poladrone)

Research Engineer 1/2022 – 9/2022

→ Developed segmentation models to segment palm oil tree fronds from drone imagery.

→ Developed PoC for drone object tracker to spray pesticide on palm oil tree with NVIDIA Jetson Nano running on Ardupilot-based drone.

→ Developed PoC for drone path planner for spraying pesticide on palm oil trees.

Perisian Huda Sdn. Bhd.

Senior Machine Learning Engineer 9/2022 – 11/2024

→ Involved in various speech machine learning projects, such as voice activity detector, speech-to-text, text-to-speech, multimodal large language models (LLM).

→ Develop and maintain streaming, real-time, on-device Arabic speech recognition models for Mushafi app [[Google Play](#)].

Publications

Raden Mu'az Mun'im, Nakamasa Inoue, Koichi Shinoda, "Sequence-level Knowledge Distillation for Model Compression of Attention-based Sequence-to-sequence Speech Recognition" - 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) [[paper](#)][[arxiv](#)]

Raden Mu'az Mun'im, Jie Lin, Vijay Chandrasekhar, Koichi Shinoda, "MaskConvNet: Training Efficient ConvNets from Scratch via Budget-constrained Filter Pruning" [[openreview](#)]

Ahmed Ayyad, Yuchen Li, Raden Muaz, Shadi Albarqouni, Mohamed Elhoseiny "Semi-Supervised Few-Shot Learning with Prototypical Random Walks" - AAAI Workshop on Meta-Learning and MetaDL Challenge, PMLR 140:45-57, 2021 [[paper](#)]

Skills

Programming Languages: C, C++, Python, Java, Javascript

GNU/Linux: Ubuntu, CentOS, bash, git, SLURM, SGE, Docker

Scientific Computing: Numpy, Scipy, MATLAB, CUDA, OpenMPI, scikit-learn, OpenCV

Machine Learning: Pytorch, Tensorflow, ONNX, MLFlow

Electronics: PSPICE, ModelSim, embedded systems (AVR, Arduino, STM32, ESP8266)

Robotics: Ardupilot, MAVLink, ROS, Arduino, MATLAB, Simulink.

Languages

Malay: Native

English: Professional (IELTS Band 7.5, 2019)

Japanese: Intermediate (JLPT N3)

Arabic: Intermediate