

Kavindu Piyumal

Skills

Languages

Python
C
Assembly
FPGA
Matlab

Libraries

PyTorch
Fastai
TensorFlow
HuggingFace
Gradio
NumPy
MPI
OpenMP
Pthread
CUDA
SQLite

Tools & Softwares

Git
Code Composer Studio
mikroC
NI Multisim
Prtoteus
Quartus

Os

Linux
macOS
Windows

Contact

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Education

Sri Lanka Institute of Information Technology Feb 2019 - Feb 2023
Bachelor of Science in Electrical and Electronics Engineering
CGPA : 3.6/4.0
Dean's List: Semester 03, 05, 06

Publications

K. Piyumal, K. Wijayasekara, G. Fernando and N. Mihiranga, "Hungarian Algorithm-Based Method to Efficiently Perform Matching Tasks in Offline Re-Identification," in IEEE BigData, Osaka, 2022. Under Review

K. Piyumal, L. Seneviratne, "Semantic Segmentation with Dilated Neighborhood Attention Transformers (DiNATs)". In Progress

Professional Experience

Zone24x7 Private Limited Sep 2021 - Present
Trainee Associate Electronics Engineer
Research and development work in Person Re-Identification, Object Detection, Inter Camera Tracking, and Multi Camera Multi People Tracking (MCMPT)

Projects

Semantic Segmentation using Vision Transformers Jun 2022 - Present
Developing computer vision based algorithms on object segmentation using dilated neighborhood attention vision transformers

FPGA - Based Vending Machine Feb 2022 - Mar 2022
Developed a DFA for the vending machine and implemented in VHDL

Multi Camera Multi People Tracking Jan 2022 - Jun 2022
Implemented inter-camera and intra-camera people tracking algorithms to track a person in a multi-camera network

People Re-Identification Sep 2021 - Jan 2022
Research and development on people re-identification focused on efficient matching retrieval during offline inferencing

Digital Tachometer Design Mar 2021 - Apr 2021
Developed firmware of a digital tachometer with a limited storage capacity

Dirt Detection in Surgical Gloves Jan 2021 - July 2021
Research and development of an algorithm to detect defects in surgical gloves at the manufacturing stage for Lalan Gloves (Pvt) Ltd.

Grid Following Robot Jun 2020 - Nov 2020
Developed a motion controlling algorithm in Fuzzy Logic and PID with MSP430

Volunteering

SLIIT Engineering Research and Innovation Club Oct 2021 - Present
Mentor
Mentoring six junior undergraduates in two groups to complete AI-related projects

NcodeExpert (Pvt) Ltd Aug 2021 - Aug 2022
STEM Research Volunteer
Volunteered as an AI researcher in drug discovery and rare diseases projects

Honors and Awards

Online Asian Machine Learning School Scholarship Oct 2022

Outstanding Intern of the Year (Nominated) Sep 2022

SLIIT Merit Based Scholarship Aug 2021

SLIIT Merit Based Scholarship Apr 2021