

SRIKRISHNA IYER

+65 85878662 | srikrishnaiyer@gmail.com | [personal website](#)

Singapore 207229

EDUCATION

Nanyang Technological University, School of Electrical and Electronics Aug 2019 – Sep 2020
Master of Science (MSc) in Computer, Control, and Automation, 3.04/4.0
– Thesis: Vital signs monitoring using mm-wave radars with machine learning
– Advisor: Dr. Muhammad Faeyz Karim

Vellore Institute of Technology, School of Electronics July 2015 – July 2019
Bachelor of Technology (BTech) in Electronics and communication, 3.52/4.0
– Thesis: Structural health monitoring of railway tracks using IoT-based multi-robot system
– Advisor: Dr. Velmurugan T

WORK/INTERNSHIP EXPERIENCE

ST Engineering, Singapore Sep 2022 – Present
Senior Research Engineer (*with Dr. Jinson Xu*)

- Assist research leads and scientists in identifying strategic technology gaps across Singapore Technology's business units.
- Currently working on spatio-temporal modeling using graph-based models, computer vision and anomaly detection for defect prediction.

ASMPT Pvt. Ltd. Singapore Sep 2020 – Aug 2022
R&D Data Analyst I (*with Dr. Kar Wai Lim*)

- Worked on multimodal temporal models for wire bond equipment quality prediction and anomaly detection.
- Proposed a RUL prediction model using deep learning and survival analysis.
- Proposed an improved representation space for textual corrective actions and time-series signals for a NLP-based corrective action recommender.

NCS pvt. Ltd., Singapore June 2020 – Aug 2020
Research Intern (*with Dr. Leo Zhao*)

- Developed a privacy-enabled tracking system using mmWave radars using radar signal processing and machine learning.

Nanyang Technological University, Singapore Oct 2019- May 2020
Graduate Research Assistant (*with Dr. Muhammad Faeyz Karim*)

- Worked in the Singtel Cognitive and artificial intelligence lab for enterprises [SCALE@NTU](#) towards the development of a non-contact non-invasive radar-based vital signs monitoring and arrhythmia prediction system using machine learning.

Research Intern (with Dr. Harry Nguyen and Dr. Lek hsiang Hui)

- Global Academic internship program on Big Data Analytics using Artificial Neural Networks jointly carried out by Hewlett-Packard Enterprise and Strategic Technology Management Institute at National University of Singapore.

SKILL SUMMARY

Core Skills: Signal processing, Image processing, Machine learning, Deep Learning

Programming: Python (Tensorflow, Keras, numPy, Pandas, OpenCV and scikit-learn), C++, MATLAB, SAS

Tools: SAS Viya, AWS Sagemaker, AWS CodePipeline, AWS CodeBuild, AWS Quick sight, PowerBI

PUBLICATIONS

1. **mmWave Radar based Vital Signs Monitoring and Arrhythmia Detection using Machine Learning**
S. Iyer, L. Zhao, M. P. Mohan, F. Zhong, M. Y. Siyal, A. Alphones and M. F. Karim
Sensors MDPI 2022
2. **Structural health monitoring of railway tracks using IoT-based multi-robot systems**
S. Iyer., Velmurugan, T., Gandomi
Neural Computing & Applications 2020
3. **Antlion optimization and Whale optimization Algorithm for multilevel thresholding segmentation**
S. Iyer, A. P. Nadkarni and Padmini T. N
Innovations in Power and Advanced Computing Technologies (i-PACT) 2019
4. **Accepted : Support Vector Machine based Spectrum Handoff Scheme for Seamless Handover in Cognitive Radio Networks**
S.Iyer, Velmurugan T, Prakasam P and Suresh Kumar T R
Concurrency and computation: Practice and Experience
5. **Under review : Non-Contact Blood Pressure Monitoring System using Dual mm-Wave Radar Sensors with Machine Learning**
S. Iyer, L. Zhao, M. P. Mohan, F. Zhong, M. Y. Siyal, A. Alphones and M. F. Karim
Scientific Reports

PATENTS

1. **Under review: Non-Invasive Blood Pressure Monitoring Using Dual mmWave FMCW Radars with Machine Learning**
S. Iyer, M.F. Karim, M. P. Mohan, F. Zhong and L. Zhao
(Singapore Patent Application No. 10202009121P)

PROFESSIONAL ACTIVITIES

Advising

Three undergraduate students , Nanyang Technological University	2019 - 2020
Undergraduate Intern, ASMPT Pvt. Ltd.	2021 - 2022

EXTRACURRICULAR ACTIVITIES

- Teaching volunteer at the Hope foundation school in bangalore in 2018.
- Student volunteer at the Instrument Society of India (Student chapter at VIT University) in 2017.