

SATHIYA MURTHI SANKARAN

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EDUCATION

University of Southern California, Viterbi School of Engineering Los Angeles, CA
Master of Science in Computer Science Jan 2023-Present

Anna University, Madras Institute of Technology Chennai, India
Bachelor of Engineering in Electronics and Communication Engineering Aug 2018-Jul 2022
Honors: Best Outgoing Student 2021 - 2022 GPA: 9.52/10

EXPERIENCE

IIT Madras, Applied Mechanics Department Chennai, India
Project Engineer – AI in Ultrasound Aug 2022-Dec 2022

- Fetal Ultrasound Analysis using AI - Applied Deep learning to Fetal US images to perform Fetal Biometry and Plane Classification.
- Involved data collection, cleanup, labeling, processing and training and integration of modules.

Zummit Infolabs Remote
Technical Lead (Part-time) Mar 2022-May 2022
Junior Data Scientist (Intern) Oct 2021-Mar 2022

- Third Eye - Deep Learning based application to aid the visually impaired in daily tasks. Implemented obstacle detection and navigation. Merged modules and deployed on Raspberry Pi.
- Received 'Star of the month' award – January 2022

Coovum Smart Systems - Image Processing Intern Remote, Apr 2021-Aug 2021

- Developed an algorithm for Human body measurement extraction from 2D images using Image Processing and Deep Learning.

Wipro Limited - Intern Remote, Jun 2021-Jul 2021

- Implemented Site Reliability Engineering. Involved application development, deployment and monitoring with a dashboard.

ACADEMIC PROJECTS

Defect Prediction in Additively Manufactured Components IIT Madras, Materials Engineering Department, Jul 2022-Dec 2022

- Developed defect detection and classification algorithm and packaged it in to a web-based application.
- Analyzed defect percentage and localization based on process parameters.

Reinforcement Learning based Automated Path Planning Madras Institute of Technology, Jan 2022-Jun 2022

- Performed hardware implementation of Reinforcement Learning based path planning to generate a map of a new environment.
- Interfaced Kinect Stereo camera with NVIDIA Jetson Nano for depth estimation based obstacle detection.

LEADERSHIP AND INVOLVEMENT

Project Third Eye - Technical Lead Zummit Infolabs, India

- Managed a team of six, responsible for tracking progress, task identification and allocation.

 Mar 2022-May 2022

MIT Robotics Association - Joint Secretary Madras Institute of Technology, India

- Conducted workshops and organized club events

 Aug 2020-May 2021

SKILLS

- Programming and Technologies:** C++, Python, Java, Deep Learning, Image Processing, Micro Controllers, Cloud, Linux Shell
- Tools and Frameworks:** TensorFlow, OpenCV, AWS EC2, Git, Streamlit, Grafana, Prometheus, Flask
- Certifications:** Deep Learning Specialization (DeepLearning.ai), TensorFlow Developer Professional Certificate (DeepLearning.ai), Google IT Automation with Python Professional Certificate, Machine Learning (Stanford University)

PUBLICATIONS

- "Defect Prediction in Additively Manufactured Components by Artificial Intelligence and Machine Learning", presented at National Welding Seminar, India – Jan 2023
- "Reinforcement based Automated Path Planning in Garden Environment using Depth – 'RAPiG-D'", presented at Second International Conference on Artificial Intelligence and Knowledge Processing, Woxsen University, Hyderabad, India. – Jul 2022