

Contact

lokesh.karpagam@gmail.com

www.linkedin.com/in/lokesh-kumar-t (LinkedIn)
tlokeshkumar.github.io/ (Personal)

Top Skills

Python

C

C++

Languages

English (Full Professional)

Hindi (Elementary)

Tamil (Native or Bilingual)

Certifications

Introduction to Modern Application Development

Introduction to Data Analytics

Honors-Awards

KVPY Fellowship Award

Lynk Hacks

National Winners in Hack2Innovate

Socure Machine Learning Interpretability Challenge

Lokesh Kumar T

Electrical Engineering IIT-M | Former Research Assistant at Aalto University School of Science and Technology
Chennai

Experience

Aalto University School of Science and Technology

Research Assistant

May 2019 - July 2019 (3 months)

Helsinki Area, Finland

Developed deep generative models to generate human-like strokes incorporating temporal information given a random seed and a user input.

Centre For Innovation (CFI)

2 years

Computer vision and Intelligence Head

April 2018 - April 2019 (1 year 1 month)

IIT Madras, Chennai Area, India

- Head of a group whose major areas of interest lies in Image Processing, Machine Vision, Deep learning for Vision, Mapping, and other leading research areas
- Participated in leading Python conferences: PyCon India, PySangamam
- Projects we do cover areas of Drone vision, Crowd analysis and surveillance, Video Morphing, and reenactment, Segmentation (Medical), etc.
- Conducted many sessions which deal with python programming, Deep learning to students of IIT Madras.

Coordinator

May 2017 - May 2018 (1 year 1 month)

IIT Madras, Chennai, India

- * Closely worked with Computer vision and Intelligence group (CVI)
- * Conducted Sessions to IITM Students on Computer vision, Deep Learning and AI
- * Monitoring and working on wide variety of projects taken under CVI

DeTect Technologies

Computer Vision Intern

May 2018 - July 2018 (3 months)

IIT Madras, Chennai Area, India

- Used object detection (SSD and Faster RCNN) for automated fault identification
- Worked on unsupervised and self-supervised deep algorithms for image segmentation.
- Worked on Direct Sparse Odometry for drone navigation and 3D reconstruction of a scene from a 2D Lidar mounted on a drone.
- Worked on the extracting the position of camera using Aruco markers aimed to automate the drone landing maneuver.

Shaastra, IIT Madras

Software Development Coordinator

May 2017 - January 2018 (9 months)

IIT Madras, Chennai, India

Creating 3D Models using Blender and developing games (Unity) for Shaastra 2018 Website.

DeTect Technologies

Computer Vision Intern

May 2017 - July 2017 (3 months)

IIT Madras Research Park, Chennai, India

- Worked on image segmentation using U-net. Implemented and trained the algorithm on a custom dataset.
- Implemented several techniques on Image enhancement and explored their uses.
- Worked on translation based image stitching using several methods

Education

Indian Institute of Technology, Madras

Bachelor of Technology and Masters of Technology, Electrical Engineering · (2016 - 2021)

Maharishi Vidya Mandir, Chetpet

XI and XII, Computer Science · (2014 - 2016)