

Education

University of Maryland

PhD in Electrical and Computer Engineering

Expected 2025
College Park, MD

Indian Institute of Technology, Madras

M.Tech in Electrical Engineering, CGPA: 9.81/10

June 2020
Chennai, India

Indian Institute of Technology, Bombay

B.Tech in Electrical Engineering, CPI: 8.43/10

April 2016
Mumbai, India

Skills

Programming Languages: Python, MATLAB, JavaScript, C++

Software Libraries: PyTorch, NumPy, TensorFlow, OpenCV

Relevant Coursework

- Random Processes
- Advanced Digital Signal Processing
- Image Signal Processing
- Linear Algebra
- Deep Learning
- Reinforcement Learning
- Convex Optimization
- Information Theory

Publications

Unpaired Image Denoising

Priyatham Kattakinda, A.N. Rajagopalan

IEEE International Conference on Image Processing (ICIP), UAE (Virtual), October 2020

Research Experience

Indian Institute of Technology Madras

August 2019 - May 2020
Chennai, India

Master's Thesis

- Investigated a wide range of techniques for image denoising.
- Developed a novel semi-supervised method for denoising images, using Flow-based generative models.
- Published our work in IEEE International Conference on Image Processing (ICIP).

KLA

May 2019 - July 2019
Chennai, India

Summer Research Intern

- Reviewed various algorithms for image super-resolution.
- Modified existing GAN-based super-resolution methods to work on SEM images and demonstrated significant improvement for downstream tasks.
- Presented the results to senior level executives at KLA.

Work Experience

Tessact

May 2016 - May 2018
Mumbai, India

Co-Founder

- Conducted extensive research on the inner workings of the media industry in India.
- Developed fully automated, Deep Learning based solutions for scalable and accurate video annotation.
- Marketed our software to several major Indian media corporations.

Awards

Siemens Prize

September 2020

- Awarded to the M. Tech student with the best academic record in Electrical Engineering at IIT Madras.

All India Rank 80 in IIT-JEE

June 2012

- Secured 80th rank (~ 470 000 total candidates, 99.98th percentile) in the Joint Entrance Examination conducted by the IITs in 2012.