

## Research Interests

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Image and Video Signal Processing, Video Prediction Applications and Evaluation, Computer Vision, Machine Learning

## Education

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**Ph.D. - Indian Institute of Science (IISc), Bengaluru** Aug 2018 - Present  
Dept of Electrical Communication Engineering

- ◊ Advisor : Dr. Rajiv Soundararajan
- ◊ CGPA : 9.59

**B.E. - PES Institute of Technology, Bengaluru** Aug 2012 - May 2016  
Dept of Electronics and Communication Engineering

- ◊ CGPA : 9.93 (Gold Medallist)

**Class XII** : 96% (District Topper) 2012  
**Class X** : 96.8% (District Topper) 2010

## Course Work

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**Mathematics** : Linear Algebra, Probability, Optimization  
**Electrical** : Digital Image Processing, Digital Video: Perception and Algorithms, Computer Vision, Machine Learning for Signal Processing, Detection and Estimation Theory

## Computer Skills

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**Programming Languages** : Java, Python, Android, MATLAB  
**Platforms** : Windows, LINUX, MacOS  
**Softwares** : L<sup>A</sup>T<sub>E</sub>X

## Professional Experience

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- ◊ **PES University**, Visiting Faculty Jan 2021 - Present
- ◊ **Indian Institute of Science (IISc)**, Teaching Assistant Oct 2020 - Jan 2021
- ◊ **Cisco Systems India Pvt Ltd**, Software Engineer Aug 2016 - Jul 2018
- ◊ **Elseem Inc.**, Research Intern Jun 2015 - Jul 2015

## Publications

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- ◊ Nagabhushan Somraj, Manoj Surya Kashi, S. P. Arun, and Rajiv Soundararajan. A naturalness evaluation database for video prediction models. *arXiv e-prints*, page arXiv:2005.00356, 2020 - Submitted to IEEE Circuits and Systems for Video Technology, Dec 2020.

## Projects

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- ◊ **Face Detection using Aggregate Channel Features** 2019
- ◊ **Image Mosaicing (Panorama)** 2019
- ◊ **Intra-Campus Wi-Fi Calling System** with Voice Activity Detection 2016
- ◊ **Android Apps**: Finance Manager, One Touch Settings 2014–17

## Honors & Awards

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- ◊ Recipient of Prime Minister's Research Fellowship (PMRF), 2020.
- ◊ Recipient of MHRD scholarship (Govt of India) for all 4 years of B.E.