## Nagabhushan S N

https://nagabhushansn95.github.io/

#### Research Interests

3D Computer Vision, Deep Video Prediction: Applications and Evaluation, Image and Video Signal Processing, Machine Learning

#### Education

#### Ph.D. - Indian Institute of Science (IISc), Bengaluru

Aug 2018 - Present

Email: nagabhushans@iisc.ac.in

#### 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

Mathematics : Linear Algebra, Probability, Optimization

Electrical : Digital Image Processing, Computer Vision, Machine Learning for Signal Processing,

Digital Video Processing, Detection and Estimation Theory

### **Professional Experience**

♦ PES University, Visiting Faculty	Jan 2021 - May 2023
♦ Indian Institute of Science (IISc), Teaching Assistant	Oct 2020 - May 2022
♦ Cisco Systems India Pvt Ltd, Software Engineer	Aug 2016 - Jul 2018
♦ Elseem Inc., Research Intern	Jun 2015 - Jul 2015

#### **Publications**

- Nagabhushan Somraj, Adithyan Karanayil, and Rajiv Soundararajan. SimpleNeRF: Regularizing sparse input neural radiance fields with simpler solutions. Conditionally accepted in ACM SIGGRAPH-Asia 2023 Conference Proceedings, Sydney, Australia.
- Nagabhushan Somraj and Rajiv Soundararajan. ViP-NeRF: Visibility prior for sparse input neural radiance fields. In ACM Special Interest Group on Computer Graphics and Interactive Techniques (SIGGRAPH), 2023.
- Nagabhushan Somraj, Pranali Sancheti, and Rajiv Soundararajan. Temporal view synthesis of dynamic scenes through 3d object motion estimation with multi-plane images. In *IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*, 2022.
- Nagabhushan Somraj, Manoj Surya Kashi, S. P. Arun, and Rajiv Soundararajan. Understanding the perceived quality of video predictions. Signal Processing: Image Communication (SPIC), 102:116626, 2022.
- Vijayalakshmi Kanchana, Nagabhushan Somraj, Suraj Yadwad, and Rajiv Soundararajan. Revealing disocclusions in temporal view synthesis through infilling vector prediction. In *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 2022.

## **Projects**

♦ Intra-Campus Wi-Fi Calling System with Voice Activity Detection

2016

Updated on August 30, 2023

# Honors & Awards

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