

Gurutva Patle

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<https://gurutvapatile.github.io>

Bangalore, India

RESEARCH INTERESTS

3D Computer Vision, Neural Scene Representations, Video Generation, Novel View Synthesis, Computer Graphics, Machine Learning

EDUCATION

Indian Institute of Science (IISc), Bangalore Aug 2023 – Present

PhD, Electrical Communication Engineering - GPA: 8.20/10

Advisor: Dr. Rajiv Soundararajan

Yeshwantrao Chavan College of Engineering (YCCE), Nagpur Aug 2017 – May 2021

Bachelor of Engineering, Computer Technology - GPA: 9.02/10

Hadas Junior College Aug 2015 - May 2017

Class XII - Percentage : 84.77%

Ira International School May 2015

Class X - GPA: 10/10

PHD TOPIC

Visual Information Processing Lab, IISc Bangalore 2023 – Present

Understanding 3D scene representation learning from sparse multi-view inputs, including surface reconstruction and neural rendering for static and dynamic scenes.

PUBLICATIONS

AD-GS: Alternating Densification for Sparse-Input 3D Gaussian Splatting

Gurutva Patle, Nilay Girgaonkar, Nagabhushan Somraj, Rajiv Soundararajan

ACM SIGGRAPH Asia 2025

Project page: <https://gurutvapatile.github.io/publications/2025/ADGS.html>

On Sampling and Sparsity in View Synthesis

Gurutva Patle, Nilay Girgaonkar, Aayush Bansal, Rajiv Soundararajan

Submitted to ECCV 2026 (Under Review)

PROFESSIONAL EXPERIENCE

Indian Institute of Science (IISc), Teaching Assistant Aug 2025 – Present

Digital Image Processing, Advanced Image Processing

Infosys Limited, Digital Specialist Engineer Aug 2021 – Jun 2023

TantraByte.Pvt.Ltd, Artificial Intelligence Intern Dec 2020 – May 2021

RELATED COURSES

Linear Algebra, Probability, Optimization, Machine Learning, Computer Vision, Image Processing, Digital Video Processing

TECHNICAL SKILLS

Programming: Python, C++, PyTorch

Libraries/Frameworks: OpenCV, PyTorch3D, COLMAP, CUDA, Rasteriser

Tools: Git, Linux, LaTeX, Blender

AWARDS

Recipient of Google KIAC Fellowship, 2026

Manthan 2021 Winner – Government of India

Imagine Virtual Hackathon 2020 – Finalist (Top 8 teams in India)

ACM ICPC 2019 – International Rank 252