



# Vedang Bhupesh Shenvi Nadkarni

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## About myself

A motivated student passionate about research and creating an impact in the research community, industry, and society. Research Interests include - Deep Learning, Computer Vision, Representation Learning, Computational Physics.

## Publications

### [An Efficient Federated Transfer Learning Approach for Multi-UAV Systems](#)

2025. Vedang Bhupesh Shenvi Nadkarni, Sandeep Joshi, L Rajya Lakshmi, NCC, 2025.

### [GLiDR: Topologically Regularized Graph Generative Network for Sparse LiDAR Point Clouds](#)

2024. Prashant Kumar, Kshitij Madhav Bhat, Vedang Bhupesh Shenvi Nadkarni, Prem Kalra, CVPR 2024.

### [Differentiable SLAM Helps Deep Learning-based LiDAR Perception Tasks](#)

2023. Prashant Kumar, Dheeraj Vattikonda, Vedang Bhupesh Shenvi Nadkarni, Erqun Dong, and Sabyasachi Sahoo, BMVC, 2023.

## Education & Training

**PhD in Computer Science** | Free University of Bozen-Bolzano | 01/11/2025 - Current | Bozen, Italy

Level in EQF: 8

**B.E. (Hons.) Computer Science and Integrated MSc. (Hons) Physics** | Birla Institute of Technology and Science, Pilani | 02/11/2020 - 13/07/2025 | Pilani, India

CGPA - 8.94/10

Level in EQF: 7

## Work experience

**Research Intern** | INRIA | 01/12/2024 - 28/05/2025 | Sophia-Antipolis, France

Knowledge injection in image diffusion models for data augmentation | [Team MAASAI](#) | Working with [Prof. \\*Frédéric A. R. Precioso](#) and [Dr. Diane Lingrand](#) .

Website: [www.inria.fr](http://www.inria.fr)

**Research Intern** | Universitat de Barcelona | 01/07/2024 - 30/11/2024 | Barcelona, Spain

High quality Efficient 3D Human capture using multi-view cameras and depth | [HuPBA group](#) | Working with [Prof. Sergio Escalera](#)

Website: [www.ub.edu](http://www.ub.edu)

**Internship** | Max Planck Institute for Intelligent Systems | 28/05/2023 - 06/08/2023 | Tübingen, Germany

Object detection and 3D mapping | [Polybot team](#) , [Robust Machine Learning group](#) | [Dr. Wieland Brendel](#)

Website: [is.mpg.de](http://is.mpg.de)

**University research assistant** | BITS Pilani | 01/03/2023 - 20/05/2024 | Pilani, India

Research projects in Multi-UAV federated transfer learning ([Dr. Sandeep Joshi](#) ), ML for members and exotic populations in stellar open clusters ([Dr. Kaushar Vaidya](#) ), Graph representations and deep learning models for particle physics. ([Dr. Tanmoy Mondal](#) )

Website: <https://www.bits-pilani.ac.in/>

**Research Intern** | Intel Labs | 15/06/2022 - 30/11/2022 | Bengaluru, India

Research on Deep Learning Recommendation systems (RecSys) and optimizing RecSys for Intel's cloud computing infrastructure through software-enabled design, and hardware access control.

Website: <https://www.intel.com/labs>

## Honours and Awards

**DAAD-WISE Scholarship** | Deutscher Akademischer Austauschdienst | 03/03/2023

Awarded a scholarship under the [Work Internships in Science and Engineering](#) by the [DAAD](#) for an internship in Germany at the

**Certificate of Merit in The India National Astronomy Olympiad** | Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research (HBCSE-TIFR) | 02/10/2020

Awarded for the selection among the top 27 students selected for and invited to the selection Camp for the International Olympiad on Astronomy and Astrophysics 2020.

**Kishore Vaigyanik Protsahan Yojana** | Indian Institute of Science, India | 10/05/2019

A fellowship for students pursuing the natural sciences by the [Department of Science and Technology, Government of India](#).

**National Talent Search Scholarship** | National Council of Educational Research and Training, India | 04/01/2019

National Scholarship awarded to 1000 students across India in the 10th grade.

<https://ncert.nic.in/national-talent-examination.php>

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#### Language Skills

Mother tongue(s): **Konkani**

	Understanding		Speaking		Writing
	Listening	Reading	Spoken production	Spoken interaction	
<b>English</b>	C2	C2	C2	C2	C2
<b>Hindi</b>	C2	B2	C2	C2	B2
<b>French</b>	B1	B1	A2	A2	A2
<b>Spanish</b>	B1	B1	A2	A2	A2
<b>Italian</b>	A2	A2	A2	A2	A2

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#### Volunteering

**Scientific Peer review** | 01/11/2025 - Current

Reviewer for CVPR '26, ECCV'26

**Chairperson, IEEE BITS Pilani Student Chapter** | 01/06/2022 - 01/06/2023 | Pilani, India

Organising talks, seminars, tutorials and competitions to teach students about Computer Science, Deep Learning and Engineering.

**Software Lead, CRISS Robotics, BITS Pilani** | 01/02/2022 - 28/02/2023 | Pilani, India

Led the design, deployment, and testing of all the software for the team's first Mars Rover Prototype, specifically involving a focus on autonomous navigation, robotic perception and hardware integration.