



Vedang Bhupesh Shenvi Nadkarni

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ABOUT ME

A motivated student passionate about research and creating an impact in the research community, industry, and society. My research interests are Computer Vision, Deep Learning, Machine Learning and their applications.

EDUCATION AND TRAINING

MSc. Physics and B.E. Computer Science

Birla Institute of Technology and Science, Pilani [02/11/2020 – 13/07/2025]

City: Pilani | Country: India | Website: <https://www.bits-pilani.ac.in/> | Final grade: 8.94

WORK EXPERIENCE

INRIA – Sophia-Antipolis, France

City: Sophia-Antipolis | Country: France | Website: www.inria.fr | Name of unit or department: MAASAI group

Research Internship

[01/12/2024 – 28/05/2025]

Controlled generation using diffusion model for image editing to treat label uncertainty in underwater images, MAASAI group, INRIA, advised by Dr. Remy Sun, Dr. Frédéric Precioso and Dr. Diane Lingrand.

Universitat de Barcelona – Barcelona, Spain

City: Barcelona | Country: Spain | Website: www.ub.edu | Name of unit or department: Department of Mathematics and Computer Science

Research Internship

[01/07/2024 – 30/11/2024]

High quality Efficient 3D Human capture using multi-view cameras and depth, at Dr. Sergio Escalera's HuPBA lab in Dr. Meysam Madadi's 3D Humans group.

Max Planck Institute for Intelligent Systems – Tübingen, Germany

City: Tübingen | Country: Germany | Website: is.mpg.de | Name of unit or department: Robust Machine Learning Group

Summer Internship

[28/05/2023 – 06/08/2023]

Adapting an object detection model on out-of-domain on-body robot image data, and designing a robust local terrain estimator for a Boston Dynamics Spot using multi-view stereo-vision point clouds, at the Robust Machine Learning group (Dr. Wieland Brendel) in the Polybot team.

BITS Pilani – Pilani, India

City: Pilani | Country: India | Website: <https://www.bits-pilani.ac.in/>

University research associate

[01/03/2023 – 20/05/2024]

Several research projects as a part of my programme requirements

1. Multi-UAV-assisted federated transfer learning to reduce computation overload. ([Dr. Sandeep Joshi, Dept. of Electrical Engineering, BITS Pilani](#))

2. The development of a tailored ML algorithm to identify members and exotic populations in stellar open clusters and a visualization suite for users to interpret the results of the ML algorithm and further analyze data, using HoloViz. ([Dr. Kaushar Vaidya, Dept. of Physics, BITS Pilani](#))
3. Understanding the impact of using graph representations in deep learning models for to find the correct assignment of particle jets in ttbar interactions. ([Dr. Tanmoy Mondal, Dept. of Physics, BITS Pilani](#))

 **Intel Labs** – Bengaluru, India

City: Bengaluru | Country: India | Website: <https://www.intel.com/labs> | Name of unit or department: Emerging AI Systems Lab

Internship

[15/06/2022 – 30/11/2022]

Designing experiments to analyze and understand system behavior in Deep Learning Recommendation systems (RecSys) workloads, visualizing hardware parameter space using a custom visualization pipeline, and using software-enabled design with hardware access control to identify optimal hardware configurations to run model inference.

PUBLICATIONS

[2025]

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

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

[2024]

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

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

[2023]

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

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

HONOURS AND AWARDS

[03/03/2023] Deutscher Akademischer Austauschdienst

DAAD-WISE Scholarship

Awarded to fund a summer internship at the [Max Planck Institute for Intelligent Systems, Tübingen, Germany](#).

[02/10/2020] Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research (HBCSE-TIFR)

The India National Astronomy Olympiad Merit

Selected for the final selection round for India's delegation to the International Olympiad on Astronomy and Astrophysics 2020 (cancelled due to the CoVID-19 pandemic).

[10/05/2019] Indian Institute of Science, India

Kishore Vaigyanik Protsahan Yojana

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

[04/01/2019] National Council of Educational Research and Training, India

National Talent Search Scholarship

National Scholarship awarded to only 1000 students from the 10th grade in India in 2018, by the [NCERT, Ministry of Education, Govt. of India](#).

VOLUNTEERING

[01/06/2022 – 01/06/2023] Pilani, India

Chairperson, IEEE BITS Pilani Student Chapter

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

[01/02/2022 – 28/02/2023] Pilani, India

Software Lead, CRISS Robotics, BITS Pilani

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.

[01/01/2021 – 30/04/2023] Pilani, India

Astro Club, BITS Pilani

Volunteering to teach other students at my university about astronomy, using telescopes and about the use of software and programming in astronomy.

[01/12/2020 – 01/12/2021] Pilani, India

National Service Scheme

Volunteering to find science and engineering solutions to solve problems in society.

HOBBIES AND INTERESTS

Travel

I try to find time on weekends or in vacations to travel to different places in the region where I'm based. I like to learn about their culture, food and life. When I'm in a city, I prefer walking around to really explore the city, meet people and local vendors.

Hiking

LANGUAGE SKILLS

Mother tongue(s): Konkani

Other language(s):

English

LISTENING C2 READING C2 WRITING C2
SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

French

LISTENING B1 READING B1 WRITING A2
SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Hindi

LISTENING C2 READING B2 WRITING B2
SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Spanish

LISTENING B1 READING B1 WRITING A2
SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user