

AVIJIT DASGUPTA

+91(799) 597-1419 ◇ Hyderabad, India

avijit.dasgupta@research.iiit.ac.in ◇ [avijit9.github.io](https://github.com/avijit9)

EDUCATION

International Institute of Information Technology, Hyderabad, India 2017-2026

M.S. and Ph.D. in Computer Science and Engineering

- **Advisors:** Prof. C. V. Jawahar, Dr. Karteek Alahari
- **Funded by:** Google India Ph.D. Fellowship
- **Research area:** First-Person Vision, Assistive Technologies, Multimodal Reasoning
- **CGPA:** 8.29 / 10

West Bengal University of Technology, Kolkata, India 2009-2013

B.Tech. in Electronics and Communication Engineering

- **CGPA:** 8.37 / 10

EXPERIENCE

Research Ph.D. Intern Jun 2025 - Nov 2025

Adobe Research

Bangalore, India

- Developed a framework to encode human tacit design principles into MLLMs for slide design.
- Currently under review as both a conference submission and a patent.

Senior Research Scientist Jan 2024 - Aug 2024

Cognizer Inc.

Hyderabad, India

- Developed solutions for Legal AI.
- Led a team of three researchers and one software engineer to develop cutting-edge enterprise solution in legal domain.

Research Scientist Dec 2022 - Dec 2023

Cognizer Inc.

Hyderabad, India

- Worked on a large-scale finetuning of Legal-BERT model.
- Developed a chatbot for seamless conversations between users and millions of legal contracts.

Visiting Researcher Feb 2019 - May 2019

Thoth, Inria

Grenoble, France

- Explored reinforce learning algorithms such as A2C, PPO, TRPO for video understanding.

Research Intern Oct 2016 - Dec 2016

CVIT, IIIT-H

Hyderabad, India

- Worked on deep neural network visualization.

Junior Research Fellow July 2014 - Oct 2016

Image Processing and Compute Vision Lab, IIT KGP

Kharagpur, India

- Worked on various projects related to medical imaging.
- Resulted in papers at EMBC, ISBI, etc.

Undergraduate Research Intern July 2012 - July 2013

Machine Intelligence Unit, ISI

Kolkata, India

- Worked on biologically inspired image filters.

PUBLICATIONS

1. **Avijit Dasgupta**, C. V. Jawahar, Karteek Alahari. **PuzzleMate: User-in-the-Loop Evaluations of MLLMs for Jigsaw Puzzle Assistance**, *in preparation*.
2. **Avijit Dasgupta**, Joseph K J, Sunandini Sanyal, Sambaran Bandyopadhyay, Sayan Nag, Pannaga Shivaswamy, Balaji Vasan Srinivasan, C.V. Jawahar, Karteek Alahari. **Learning to Design Stylized Slides**, *under submission*.
3. Sainithin Artham, **Avijit Dasgupta**, Shankar Gangisetty, C. V. Jawahar. **DriveSafe: A Joint Framework for Risk Prediction and Safety Suggestion in Driving Scenario**, *under submission*.
4. **Avijit Dasgupta**, Yale Song, C. V. Jawahar, Karteek Alahari. **Evaluating Egocentric Video Domain Generalization in the Era of VLMs**, *under submission*.

5. Ajoy Mondal, Saumya Mundra, **Avijit Dasgupta**, C. V. Jawahar. **UniTabBank: A Large Scale Multi-Lingual, Multi-Layout, Multi-Type, Multi-Format Dataset for Table Detection**, *WACV*, 2026.
6. **Avijit Dasgupta***, Sainithin Artham*, Shankar Gangisetty, C. V. Jawahar. **Distilling *What* and *Why*: Enhancing Driver Intention Prediction with MLLMs**, *WACV*, 2026.
7. Kristen Grauman, Andrew Westbury, Lorenzo Torresani, Kris Kitani, Jitendra Malik, ..., **Avijit Dasgupta*** ..., **Ego-Exo4D: Understanding Skilled Human Activity from First- and Third-Person Perspectives**, *IJCV*, 2025.
8. Ritabrata Chakraborty, Rajat Subhra Chakraborty, **Avijit Dasgupta**, Sandeep Chaurasia. **Do We Need Large VLMs for Spotting Soccer Actions?**, *IJCNLP-AACL (SRW)*, 2025. (*Oral*)
9. Shayon Dasgupta, **Avijit Dasgupta**, C. V. Jawahar. **Are We There Yet? Exploring the Capabilities of MLLMs in Assistive AI Applications**, *ICVGIP*, 2025. (*Oral*)
10. **Avijit Dasgupta**, C. V. Jawahar, KartEEK Alahari. **Source-free Video Domain Adaptation by Learning from Noisy Labels**, *Pattern Recognition*, 2025.
11. Kristen Grauman, Andrew Westbury, Lorenzo Torresani, Kris Kitani, Jitendra Malik, ..., **Avijit Dasgupta*** ..., **Ego-Exo4D: Understanding Skilled Human Activity from First- and Third-Person Perspectives**, *CVPR*, 2024. (*Oral*)
12. **Avijit Dasgupta**, C. V. Jawahar, KartEEK Alahari. **Overcoming Label Noise for Source-free Unsupervised Video Domain Adaptation**, *ICVGIP*, 2022. (*Best paper runner-up*)
13. **Avijit Dasgupta**, C. V. Jawahar, KartEEK Alahari. **Context Aware Group Activity Recognition**, *ICPR*, 2020.
14. **Avijit Dasgupta**, Sonam Singh. **A Fully Convolutional Neural Network Based Structured Prediction Approach Towards Retinal Vessel Segmentation**, *ISBI*, 2017.
15. **Avijit Dasgupta**, Sudipta Mukhopadhyay, Shrikant A Mehre, Parthasarathi Bhattacharyya. **Morphological Geodesic Active Contour Based Automatic Aorta Segmentation in Thoracic CT Images**, *CVIP*, 2016.
16. Manashi Chakraborty, Sudipta Mukhopadhyay, **Avijit Dasgupta**, Santanu Patsa, Nishat Anjum, Jay Gopal Ray. **A new approach of oral cancer detection using bilateral texture features in digital infrared thermal images**, *EMBC*, 2016.
17. Manashi Chakraborty, Sudipta Mukhopadhyay, **Avijit Dasgupta**, Swapna Banerjee, Santanu Patsa, Jay G Ray, K Chaudhuri. **A new paradigm of oral cancer detection using digital infrared thermal imaging**, *SPIE Medical Imaging*, 2016.
18. **Avijit Dasgupta**, Ashish Bakshi, Kuntal Ghosh. **Lateral inhibition based holistic approach to adaptive image enhancement**, *IACC*, 2013.

AWARDS AND HONORS

- **Best Paper Runner-UP**, *ICVGIP*, 2022
- **IFCPAR/CEFIPRA Travel Grant** to visiton Thoth group, Inria, 2019
- **Google India Ph.D. Fellowship**, 2017 (*1 out of 4 recipients in India*)
- **ICMR Travel Grant** to attend ISBI, 2017
- **Junior Research Fellowship**, Awarded by MHRD in 2014, India

SKILLS

Programming Languages	Python (primary), C/C++, Bash
Deep Learning & CV Libraries	PyTorch, TorchVision, OpenCV, timm, PyTorchVideo
LLM / MLLM & GenAI Stack	Transformers, Diffusers, TRL, LLaMA-Factory
Data, Analysis & Visualization	NumPy, Pandas, SciPy, scikit-learn
Training, Scaling & Experimentation	PyTorch Distributed (DDP/FSDP), DeepSpeed
Systems, Tools & MLOps	Linux, Git, Docker, Conda/virtualenv, Slurm

ACADEMIC SERVICES

- Reviewer for CVPR, ECCV, ICCV, WACV, ICDAR, ICVGIP, TMI, JBHI, CIBM
- Coached a cohort of high-school students in computer vision for the International Olympiad in Artificial Intelligence (IOAI) 2025, with mentees performing exceptionally [well](#).
- Mentored hands-on lab sessions in deep learning and computer vision at the CVIT Summer School, 2017–2024.
- Mentored hands-on lab sessions in CSEDU-ML faculty development programme, 2022.

MEDIA COVERAGE

One of my projects was featured on the official Meta Open Source YouTube channel ([video](#)).