

# AVIJIT DASGUPTA

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## EDUCATION

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**International Institute of Information Technology**, Hyderabad, India  
*M.S. and Ph.D. in Computer Science and Engineering*

2017-2026

- **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  
*B.Tech. in Electronics and Communication Engineering*

2009-2013

- **CGPA:** 8.37 / 10

## EXPERIENCE

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### Research Ph.D. Intern

Adobe Research

Jun 2025 - Nov 2025  
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.

### Visiting Researcher

Thoth, Inria

Feb 2019 - May 2019  
Grenoble, France

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

### Research Intern

CVIT, IIIT-H

Oct 2016 - Dec 2016  
Hyderabad, India

- Worked on deep neural network visualization.

### Junior Research Fellow

Image Processing and Compute Vision Lab, IIT KGP

July 2014 - Oct 2016  
Kharagpur, India

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

### Undergraduate Research Intern

Machine Intelligence Unit, ISI

July 2012 - July 2013  
Kolkata, India

- Worked on biologically inspired image filters.

## PUBLICATIONS

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1. Avijit Dasgupta, Shayon Dasgupta, Zakaria Laskar, C. V. Jawahar, Karteek Alahari. **PuzzleMate: Benchmarking MLLMs for Egocentric Puzzle Assistance**, *under submission*.
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**, *ICRA*, 2026.
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, Rajatsubhra 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 Patra, 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 Patra, 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

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- **Outstanding Reviewer Award**, BMVC, 2025
- **Best Paper Runner-UP**, ICGIP, 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

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

## ACADEMIC SERVICES

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- 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

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