

# AVIJIT DASGUPTA

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## EDUCATION

<b>International Institute of Information Technology</b> , Hyderabad, India <i>M.S. and Ph.D. in Computer Science and Engineering</i> <ul style="list-style-type: none"><li>• <b>Advisors:</b> Prof. C. V. Jawahar, Dr. KartEEK Alahari</li><li>• <b>Funded by:</b> Google India Ph.D. Fellowship</li><li>• <b>Research area:</b> First-Person Vision, Assistive Technologies, Multimodal Reasoning</li><li>• <b>CGPA:</b> 8.29 / 10</li></ul>	2017-2026
<b>West Bengal University of Technology</b> , Kolkata, India <i>B.Tech. in Electronics and Communication Engineering</i> <ul style="list-style-type: none"><li>• <b>CGPA:</b> 8.37 / 10</li></ul>	2009-2013

## EXPERIENCE

<b>Research Ph.D. Intern</b> Adobe Research <ul style="list-style-type: none"><li>• Developed a framework to encode human tacit design principles into MLLMs for slide design.</li><li>• Currently under review as both a conference submission and a patent.</li></ul>	Jun 2025 - Nov 2025 <i>Bangalore, India</i>
<b>Senior Research Scientist</b> Cognizer Inc. <ul style="list-style-type: none"><li>• Developed solutions for Legal AI.</li><li>• Led a team of three researchers and one software engineer to develop cutting-edge enterprise solution in legal domain.</li></ul>	Jan 2024 - Aug 2024 <i>Hyderabad, India</i>
<b>Research Scientist</b> Cognizer Inc. <ul style="list-style-type: none"><li>• Worked on a large-scale finetuning of Legal-BERT model.</li><li>• Developed a chatbot for seamless conversations between users and millions of legal contracts.</li></ul>	Dec 2021 - Dec 2023 <i>Hyderabad, India</i>
<b>Visiting Researcher</b> Thoth, Inria <ul style="list-style-type: none"><li>• Explored reinforce learning algorithms such as A2C, PPO, TRPO for video understanding.</li></ul>	Feb 2019 - May 2019 <i>Grenoble, France</i>
<b>Research Intern</b> CVIT, IIIT-H <ul style="list-style-type: none"><li>• Worked on deep neural network visualization.</li></ul>	Oct 2016 - Dec 2016 <i>Hyderabad, India</i>
<b>Junior Research Fellow</b> Image Processing and Compute Vision Lab, IIT KGP <ul style="list-style-type: none"><li>• Worked on various projects related to medical imaging.</li><li>• Resulted in papers at EMBC, ISBI, etc.</li></ul>	July 2014 - Oct 2016 <i>Kharagpur, India</i>
<b>Undergraduate Research Intern</b> Machine Intelligence Unit, ISI <ul style="list-style-type: none"><li>• Worked on biologically inspired image filters.</li></ul>	July 2012 - July 2013 <i>Kolkata, India</i>

## 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

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- **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

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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](#)).