

## EDUCATION

### International Institute of Information Technology

Hyderabad, India

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

2017 - 2026 (*expected*)

- Advisor: Prof. C. V. Jawahar, Dr. Karteeek Alahari
- Funded by: Google India Ph.D. Fellowship
- Research area: Egocentric Vision, Assistive Technologies, Model Generalization

### West Bengal University of Technology

Kolkata, India

B.Tech. in Electronics and Communication Engineering

2009 - 2013

## PUBLICATIONS

1. **Avijit Dasgupta**, C. V. Jawahar, Karteeek Alahari. Watching Others, Coaching You: Third-Person-to-Egocentric Feedback, *in preparation*.
2. Sai Nithin, **Avijit Dasgupta**, Shankar Gangisetty, C. V. Jawahar. DriveSafe: A Joint Framework for Risk Prediction and Safety Suggestion in Driving Scenario, *under submission*.
3. **Avijit Dasgupta**, Yale Song, C. V. Jawahar, Karteeek Alahari. Evaluating Egocentric Video Domain Generalization in the Era of VLMs, *under submission*.
4. 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.
5. Sai Nithin\*, **Avijit Dasgupta\***, Shankar Gangisetty, C. V. Jawahar. Distilling *What* and *Why*: Enhancing Driver Intention Prediction with MLLMs, WACV, 2026.
6. Ritabrata Chakraborty, Rajat Subhra Chakraborty, **Avijit Dasgupta**, Sandeep Chaurasia. Do We Need Large VLMs for Spotting Soccer Actions?, *IJCNLP-AACL (SRW)*, 2025.
7. **Avijit Dasgupta**, C. V. Jawahar, Karteeek Alahari. Source-free Video Domain Adaptation by Learning from Noisy Labels, *Pattern Recognition*, 2025.
8. 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**)
9. **Avijit Dasgupta**, C. V. Jawahar, Karteeek Alahari. Overcoming Label Noise for Source-free Unsupervised Video Domain Adaptation, *ICVGIP*, 2022. (**Best paper runner-up**)
10. **Avijit Dasgupta**, C. V. Jawahar, Karteeek Alahari. Context Aware Group Activity Recognition, *ICPR*, 2020.
11. **Avijit Dasgupta**, Sonam Singh. A Fully Convolutional Neural Network Based Structured Prediction Approach Towards Retinal Vessel Segmentation, *ISBI*, 2017.
12. **Avijit Dasgupta**, Sudipta Mukhopadhyay, Shrikant A Mehre, Parthasarathi Bhattacharyya. Morphological Geodesic Active Contour Based Automatic Aorta Segmentation in Thoracic CT Images, *CVIP*, 2016.
13. 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.
14. 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.
15. **Avijit Dasgupta**, Ashish Bakshi, Kuntal Ghosh. Lateral inhibition based holistic approach to adaptive image enhancement, *IACC*, 2013.

EXPERIENCES	<b>Research PhD Intern   Adobe, India</b>   Bengaluru, India	2025.06 - ongoing
	• Working on slide stylization using VLM and LLMs	
	<b>Visiting Researcher   Thoth, Inria</b>   Grenoble, France	2019.02 - 2019.05
	• Worked on reinforcement learning for DOOM game	
	<b>Research Intern   CVIT, IIT</b>   Hyderabad, India	2016.10 - 2016.12
	• Worked on deep neural network visualization	
	<b>Junior Research Fellow   IPCV, IIT</b>   Kharagpur, India	2014.07 - 2016.10
	• Worked on various projects related to medical imaging	
	<b>Research Intern   ISI</b>   Kolkata, India	2012.07 - 2013.07
	• Developed biologically inspired image filters	
AWARDS AND HONORS	• <b>Best-Paper Runner Up, ICVGIP</b>	2022.12
	• <b>IFCPAR/CEFIPRA Travel Grant</b> , To visit Thoth lab, Grenoble, France	2019.02
	• <b>Google India Ph.D. Fellowship</b> , 1 out of 4 recipients	2017.07
	• <b>ICMR Travel Grant</b> , To attend ISBI	2017.04
	• <b>Junior Research Fellowship</b> , Awarded by MHRD, India	2014.07
SKILLS	<b>Languages:</b> English, Hindi, Bengali.	
	<b>Programming:</b> Python, PyTorch, Tensorflow, PytorchVideo.	
ACADEMIC SERVICES	<b>Reviewers for:</b> CVPR, ECCV, ICCV, WACV, ICDAR, ICVGIP, TMI, JBHI, CIBM	
MEDIA COVERAGE	<b>Meta Open Source:</b> <a href="https://www.youtube.com/watch?v=TTVoW289UoU">https://www.youtube.com/watch?v=TTVoW289UoU</a>	