Tejaswi KASARLA
Ph.D. Candidate Computer Vision

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Amsterdam

Research Objectives : Understanding inductive biases and prior knowledge to build better models in deep learning.

EDUCATION

2021-2025	**Ph.D. in Artificial Intelligence**, *University of Amsterdam, Netherlands*
2016-2019	**M.S. (by Research) in Computer Science and Engineering**, *International Institute of Information Technology, Hyderabad, India*. Grade : 7.17/10
2011-2015	**B.Tech. in Electrical and Electronics Engineering**, *Mahatma Gandhi Institute of Technology, Hyderabad, India*. Grade : 80.48%

WORK

October 2021 Present	PhD Candidate | VIS Lab and ELLIS Unit Amsterdam, UNIVERSITY OF AMSTERDAM, Netherlands With Pascal Mettes and Rita Cucchiara. [Computer Vision] [Hyperbolic deep learning] [Hyperspherical deep learning]
May 2019 August 2021	Computer Vision Researcher, BOSCH, India Worked with the corporate research team on perception for autonomous driving using multi-senor data. [Autonomous Driving] [Computer Vision] [Deep Learning]
June 2018 October 2018	Research Intern, BOSCH, India Worked with the corporate research team on methods for efficient knowledge distillation methods for real-time semantic segmentation. [Computer Vision] [Semantic Segmentation] [Autonomous Driving] [Deep Learning]
August 2016 March 2019	Research Assistant | CVIT, IIIT HYDERABAD, India With Prof. C.V. Jawahar and Prof. Vineeth N. Balasubramanian. Worked on master's thesis on the topic – active learning for semantic segmentation in autonomous driving scenarios. Thesis [Computer Vision] [Semantic Segmentation] [Autonomous Driving] [Deep Learning]
August 2015 January 2016	Research Fellow | Center for Innovation, LV PRASAD EYE INSTITUTE, India Developed prototype of eye tracking software for Pediatric Perimeter using OpenCV to quantify the visual field of infants. [Computer Vision] [Medical Healthcare] [Software Development]

PUBLICATIONS

MAXIMUM CLASS SEPARATION AS INDUCTIVE BIAS IN ONE MATRIX (ORAL - TOP 7.5%)   NEURIPS 2022

Tejaswi Kasarla, Gertjan J. Burghouts, Max van Spengler, Elise van der Pol, Rita Cucchiara, Pascal Mettes.   Code
  Project Page   Open Review   Poster   Video

REGION-BASED ACTIVE LEARNING FOR EFFICIENT LABELING IN SEMANTIC SEGMENTATION   WACV 2019

Tejaswi Kasarla, G. Nagendar, Guruprasad Hegde, Vineeth N. Balasubramanian, C.V. Jawahar.   Paper   Poster

SELECT HONORS AND AWARDS

2022	**NeurIPS Scholar Award**. Awarded to cover conference registration and stay for NeurIPS 2022.
2022	**WiML Travel Grant**. Awarded to cover travel expenses for NeurIPS 2022 (declined).
2021	ELLIS **PhD Award** to fund research exchange at University of Modena with Prof. Rita Cucchiara during my PhD.

TALKS AND POSTERS

28 Nov 2022	Contributed Talk – Women in Machine Learning (NeurIPS 2022 Workshop) : **Maximum Class Separation as Inductive Bias in One Matrix**. Video Poster
22 Sep 2022	Poster – ELLIS Doctoral Symposium : **Maximum Class Separation as Inductive Bias in One Matrix**
2017	Talk – First Research Symposium, IIIT Hyderabad - **Active Learning for Semantic Segmentation**.

🎓 Outreach and Inclusion

2023-Present	Mentoring Co-Chair, Women in Computer Vision Workshops
2022-Present	Mentor, WiML Mentorship Program. Students mentored : 1
2022-Present	Mentor, Inclusive AI Program, University of Amsterdam . Students mentored : 1

🎓 Workshops and Sessions Co-organized

June 2022	*Program co-chair*, Women in Computer Vision (CVPR 2022 Workshop). ☑ Webpage
October 2021	*Organizer*, Women in Computer Vision Networking Session (ICCV 2021 Socials). ☑ Webpage
June 2021	*Program co-chair*, Women in Computer Vision (CVPR 2021 Workshop). ☑ Webpage
Sept '20-Jun '21	*Organizer*, Whiteboard Talks (Bosch India). A bi-weekly talk series discussing research, engineering and other ongoing topics.

🎓 Professional Service and Volunteering

2019-Present	Reviewer; ICCV 2023, WiCV Workshop 2023, WiML Workshop 2019
2020	Student Volunteer; ICML (International Conference on Machine Learning), ICLR (International Conference on Learning Representations)
2018	Student Volunteer; ICVGIP (Indian Conference on Computer Vision, Graphics and Image Processing)

🎓 Teaching and Supervision

2023	(Master's Thesis Supervisor) Supervising one student in the MSc Information Studies program at University of Amsterdam.
2022	(Teaching Assistant) **Applied Machine Learning** at University of Amsterdam.
2021	(Teaching Assistant) **Applied Machine Learning** at University of Amsterdam.

☰ Software

Languages	Python, MATLAB, C++, HTML, CSS
ML Frameworks	Pytorch, Keras, Tensorflow
Others	Adobe Illustrator, Figma

66 References

Dr. Pascal Mettes	**Dr. Amit Arvind Kale**	**Prof. C.V. Jawahar**
Assiatant Professor	*Chief Scientist and Director*	*Amazon Chair Professor*
University of Amsterdam	Bosch Research	IIIT Hyderabad