

Bhavyesh Sajja

sbhavyesh@gmail.com | [Website](#) | [LinkedIn](#) | [Scholar](#)

EDUCATION

National University of Singapore Doctor of Philosophy, Computer Science <i>Advisors: Dr Roger Zimmermann, Dr Tan Zhi Xuan</i>	GPA: 4.75/5.00 Aug 2025 – Present
University of Southern California Master of Science, Computer Science	GPA: 4.00/4.00 Aug 2023 – May 2025
National Institute of Technology Delhi Bachelor of Technology, Computer Science and Engineering <i>President's Gold Medalist for the highest GPA across all majors</i>	GPA: 9.41/10.00 Aug 2019 – Jun 2023

EXPERIENCE

MMRL, CoSI Lab PhD Student (<i>Advisors: Dr Roger Zimmermann, Dr Tan Zhi Xuan</i>)	Singapore Nov 2025 – Present
• Developing cooperative infrastructures for situations involving self-interested agents	
• Interested in automated negotiation, and norms – emergence, learning, and compliance	
Integrated Media Systems Center Research Assistant (<i>Advisor: Dr Seon Ho Kim</i>)	Los Angeles, USA Aug 2023 – May 2025
• Built a robust nighttime object detection pipeline; benchmarked real-world semi-supervised detection	
Palanam Technology Pvt. Ltd. Research Intern	New Delhi, India Sep 2022 – May 2023
• Developed a novel 3D attention mechanism to promote robustness in violent video content detection	

SELECTED PUBLICATIONS

- Object Detection in Real-World Smart City Applications: A Case of Truck Detection in California Highways
Bhavyesh Sajja, Wenting Qiu, Jooyoung Yoo, Seon Ho Kim. DASC@ICDE 2025
- Detection of Violent Content in Videos Using Attention-Augmented 3D Convolutional Networks
Bhavyesh Sajja, Anurag Singh. IEEE MultiMedia
- Impact of Noise in Large Real-World Datasets on Semi-Supervised Object Detection: A Case Study of Homeless Encampments Detection
Bhavyesh Sajja, Seon Ho Kim. IEEE BigData 2024

PROJECTS

- Bayesian Reciprocation in LLMs** [Report]
Tested LLMs' ability to rationally cooperate with different game-theoretic player types
- Multi-Agent Social Interaction Simulation** [Report]
Developed game-theoretic simulations to study interaction patterns among steered LLM agents

SKILLS

Python, C++, Julia, OpenRLHF, PyTorch, NumPy, HuggingFace, Transformers, Docker, Go