

# Sairam VCR

Ph.D. Candidate in Artificial Intelligence · Indian Institute of Technology Hyderabad, India

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## Research Interests

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**Computer Vision & Deep Learning:** Robust and Efficient Visual Perception. Specific interests include Multimodal Large Language Models, Visual GUI Agents, Learning with Limited Labels, Domain Adaptation & Generalization, Machine Unlearning, and Aerial Vision (tiny & oriented object detection).

## Education

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### Indian Institute of Technology (IIT), Hyderabad

Ph.D. in Artificial Intelligence

Advisor: Dr. Vineeth N Balasubramanian

CGPA 8.52 / 10

Aug 2020 to Present

### Mohamed Bin Zayed University of AI (MBZUAI), Abu Dhabi

Visiting Researcher

Host: Dr. Muhammad Haris Khan

Jan 2025 to Mar 2026

### Indian Institute of Information Technology (IIIT), Tiruchirappalli

B.Tech. in Computer Science and Engineering

★ Gold Medal for Academic Excellence

CGPA 9.17 / 10

2016

## Publications

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### 2026

7. **Sairam VCR**, Varun Gopal, Poornima Jain, Vineeth N Balasubramanian, Muhammad Haris Khan. *Real-time Source-Free Object Detection*. **ECCV 2026** [paper]
6. **Sairam VCR**, Rishabh Lalla, Aveen Dayal, Tejal Kulkarni, Anuj Lalla, Vineeth N Balasubramanian, Muhammad Haris Khan. *Foundation Model Priors Enhance Object Focus in Feature Space for Source-Free Object Detection*. **CVPR 2026** [paper]
5. Sarthak Mehrotra, **Sairam VCR**, Mani Hemanth Reddy Bonthu, Vineeth N Balasubramanian. *iSHIFT: Lightweight Slow-Fast GUI Agent with Adaptive Perception*. **CVPR 2026** [paper]
4. Poornima Jain, **Sairam VCR**, Vineeth N Balasubramanian. *On the Role of Vision and Language in Harmful Response Generation: A Component-wise Unlearning Study in Multimodal LLMs*. **CVPR-W 2026** [paper]

### 2024

3. **Sairam VCR**, Pranoy Panda, Vineeth N Balasubramanian. *C2FDrone: Coarse-to-Fine Drone-to-Drone Detection using Vision Transformer Networks*. **ICRA 2024** [paper]

### 2023

2. **Sairam VCR**, Monish Keswani, Uttaran Sinha, Nishit Shah, Vineeth N Balasubramanian. *ARUBA: An Architecture-Agnostic Balanced Loss for Aerial Object Detection*. **WACV 2023** [paper]
1. Charchit Sharma, Ayan Kumar Pahari, Pranoy Panda, **Sairam VCR**, Deepak Vijaykeerthy, Vineeth N Balasubramanian. *Do Models see Corruption as we see? An Item Response Theory based study in Computer Vision*. **ICLR-W 2023**

## Awards & Achievements

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- 3 papers accepted at **CVPR 2026** (plus 1 at **ECCV 2026**).
- **Research Excellence Award**, IIT Hyderabad (2024).
- **Oral Presentation** at ICRA 2024, a top-tier robotics conference.
- **Invited Presentations:** IndoML 2025, Amazon Research Days 2024, IndoML 2024, Symposium on Data for Public Good 2024.
- **Gold Medalist**, IIIT Tiruchirappalli (2016), for academic excellence in Computer Science & Engineering.

## Academic Services

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- **Area Chair:** ACM IKDD CODS 2026
- **Reviewer:** NeurIPS 2026, CVPR 2026, ACM IKDD CODS 2025, ICVGIP 2025, IJCV 2025, IET Computer Vision 2025, IEEE TAI 2025, Pattern Recognition (2024, 2025, 2026), ACM Computing Surveys.
- **Sub-reviewer:** ECCV 2026, IEEE TIP 2024, ICRA 2024, WACV 2024, NeurIPS 2023, ICCV 2023, IJCAI 2023.
- **Student Volunteer:** IIIT Hyderabad Summer School on AI 2024 (hands-on session), ACML 2022.

## Research Forums Attended

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- **IndoML 2025:** Indian Symposium on Machine Learning; poster presentation.
- **ICRA 2024** (Yokohama, Japan): oral presentation on drone-to-drone detection.
- **Amazon Research Days 2024:** invited participant; showcased ICRA 2024 work.
- **Symposium on Data for Public Good 2024** (IISc Bengaluru): selected for the Young Researchers' Forum on Data & AI for Public Good.
- **Google Research Week 2023 & 2024:** engaged with cutting-edge research discussions.
- **IIIT Hyderabad Summer School on AI 2024:** participated and contributed as a student volunteer.
- **ACML 2022:** Asian Conference on Machine Learning; attended as a student volunteer.

## Teaching Assistant Experience

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- **Foundations of Machine Learning:** Fall 2021, Fall 2024
- **Deep Learning:** Spring 2023, Spring 2024
- **Sequence Models:** Spring 2023
- **Reinforcement Learning:** Summer 2022
- **Introduction to Modern AI:** Fall 2020

## References

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- **Vineeth N Balasubramanian**, Professor, CSE, IIT Hyderabad. ✉ vineethnb@iith.ac.in
- **Muhammad Haris Khan**, Assistant Professor, CSE, MBZUAI, Abu Dhabi. ✉ muhammad.haris@mbzuai.ac.ae