Shivanand Kundargi

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Education

University of Maryland, Baltimore County **Aug. 2024 – Present**
Doctor of Philosophy in Computer Science, PhD Advisor: Dr.Tejas Gokhale , GPA: 4.00 *Maryland, United States*

Courses: Robust ML, NLP, Neural Networks, Machine Learning.

KLE Technological University **Aug. 2019 – Aug. 2023**
Bachelor of Engineering in Electronics and Communication , GPA: 3.68 *Hubballi, Karnataka*

Courses: Advanced Computer Vision, Signal Processing, Calculus, Algorithms.

Research Interests

- Continual Learning
- Machine Unlearning
- Open-World Learning
- Computer Vision
- Representation Learning
- Interpretable AI

Experience

Lawrence Livermore National Laboratory **Summer 2025**
Research Scientist Intern *Livermore, United States*

- Working with Dr.Kowshik Thopalli and Dr.Vivek at Machine Intelligence Group

University of Maryland, Baltimore County **Aug 2024 – Present**
Graduate Teaching/Research Assistant *Maryland, United States*

- At *Department of Computer Science and Electrical Engineering* TA for CMSC 331 in fall'24 and RA with Dr.Tejas Gokahle in spring'25

Indian Institute of Technology, Hyderabad **Aug. 2023 - Aug. 2024**
Research Associate *Hyderabad, India*

- Worked with Dr.Vineeth Balasubramanian at Machine Learning and Vision Group on NCD/GCD problem

Bosch Global Software Technologies **May. 2022 - July. 2024**
Summer Intern *Bangalore, India*

- Worked on safety critical automobile applications like Anti-pinch technology.

Publications

- **SACK: Sequentially Acquiring Concepts to Guide Continual Learning**
  Shivanand Kundargi, Kowshik Thopalli, Tejas Gokhale, *Workshop on Visual Concepts @ CVPR*, 2025.
- **A benchmark grocery dataset of realworld point clouds from single view**
  Shivanand Sheshappanavar, Tejas Anvekar, **Shivanand Kundargi**, Yufan Wang and Chandra Kambhamettu, *International Conference on 3D Vision (3DV)*, 2024.
- **Novel class discovery for representation of real-world heritage data as neural radiance fields (student abstract)**
  Shivanand Kundargi, Tejas Anvekar, Ramesh Tabib, Uma Mudenagudi, *Proceedings of the AAAI Conference on Artificial Intelligence*, 2024.
- **Pointclimb: An exemplar-free point cloud class incremental benchmark**
  Shivanand Kundargi, Tejas Anvekar, Ramesh Tabib, Uma Mudenagudi, *CLVision workshop @ CVPR*, 2023.

Technical Skills

Languages: Python, C++, C, Matlab, Simulink, Statesflow

Research Tools: Latex, Zotero, Mendeley, Obsidian

Frameworks/Platforms: Pytorch, Tensorflow, Avalanche, Detectron, Linux, GitHub, VS code

Projects

SACK: Sequentially Acquiring Concepts for Contiual Learning | *Pytorch* **UMBC 2025**

- A framework to guide continual learning via concept based importance sampling.

Can unlearning mitigate adversaries in continual learning? | *Pytorch* **UMBC 2024-25**

- Hypothesized a novel problem, made initial efforts to check if adversarial training helps mitigate attacks in continual framework.currently under progress

Exploring non-monotonic reasoning to address context shift in LLM/LMMs | *Pytorch* **UMBC 2025**

- Observing that LLMs cant handle context shifts during conversations and are mostly biased to conversation history. I am exploring non-monotonic reasoning chains towards addressing the problem.

Narrative grounded video summarization | *Pytorch* **UMBC 2025**

- Introducing adversaries in videos can impact the narrative of the video. I intend to ground this problem and measure the deviation of narrative when adversaries are introduced.

Achievements

Smart India Hackathon Senior Software Edition | *DRDO, Govt of India* **Winner 2022**

- Cash prize awarded : 1,00,000, Lead the team of 6, winners among 60+ teams

1st Workshop on Maritime Computer Vision (MaCVi) 2023: Challenge | *MaCVi Workshop* **WACV 2022**

- 12th Position in Leaderboard of Object detection on MaCVi data.

Encode Hackathon | *BOSCH, IIT Gawahati* **Winner 2022**

- Cash prize awarded : 30,000, Lead the team of 4, winners among 200+ teams

Media Coverage

My interview with Ministry of Education(Government of India) on "How to ace hackathons"

Academic Service

Conferences: Program Committee– AAAI 2025, CoLLAs 2025, ELAMI workshop @ MICCAI 2025

Journals: Technical Reviewer– Pattern Recognition, Intelligent Decision Technologies

References

Available upon request