Sanjoy Kundu

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Profile Summary

- About 3.5 years research experience in **computer vision** and **deep learning**
- Areas of interests are but not limited to multi-modal learning, Foundation models, scene graph generation, visual question answering, video understanding, image and video captioning etc.

Education

Fall 2023 – current — **Ph.D., Auburn University, Auburn, Alabama** in Computer Science and Software Engineering **(Transferred from OSU)**

Spr 20 – Sum 23 — **Ph.D., Oklahoma State University, Stillwater, Oklahoma** in Computer Science **(Transferred to AU)**

2016 – 2019 — **M.S., Stamford University, Bangladesh** in Computer Science and Engineering

2009 – 2013 — **B.S., Khulna University of Engineering and Technology** in Electronics and Communication Engineering

Research Publications

1. S. N. Aakur, S. Kundu, and S. Trehan, "Discovering Novel Actions in an Open World with Object-Grounded Visual Commonsense Reasoning," *arXiv*, vol. arXiv:2305.16602, 2023 [In review]. URL: https://arxiv.org/abs/2305.16602.
2. S. Kundu and S. N. Aakur, "IS-GGT : Iterative Scene Graph Generation With Generative Transformers," *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023*, vol. pp. 6292-6301, 2023. URL: https://openaccess.thecvf.com/content/CVPR2023/html/Kundu_IS-GGT_Iterative_Scene_Graph_Generation_With_Generative_Transformers_CVPR_2023_paper.html.
3. S. N. Aakur, S. Kundu, and N. Gunti, "Knowledge Guided Learning: Open World Egocentric Action Recognition with Zero Supervision," *Pattern Recognition Letter*, vol. 156, 38-45, 2022. URL: https://www.sciencedirect.com/science/article/abs/pii/S0167865522000733.
4. S. Kundu, N. Gunti, B. Hendrickson, M. S, and S. Aakur, "Benchmark and Evaluation of Low Resource Object Detection in Biomedical Images," *2020 IEEE Applied Imagery Pattern Recognition Workshop (AIPR)*, 2020. DOI: 10.1109/AIPR50011.2020.9425104.

Skills

Coding — **Python** (Advanced), C (Intermediate), Java (Intermediate)

ML/DL tools — **Pytorch**, Tensorflow, Keras Open-Cv, Scikit-learn, Pandas, Numpy, SciPy, Matplotlib, NetworkX, etc.

Misc. — Academic research, teaching

Voluntary Activities

Mentored graduate students in Oklahoma State University and Auburn University

Summer 2022 — **Mentored** one under-graduate student as part of the **REU program**

Voluntary Activities (continued)

- Worked as a **reviewer** for **NeuRIPS 2023, CVPR 2022, ACM Multimedia 2021, RA-L, ICPR 2022, ICMLA 2023** etc.

Awards

2021 — Received Graduate College **Robberson Summer 2021 Research and Creative Activity Grant** from Graduate College, Oklahoma State University

2000–2009 — Obtained government and non-government scholarships for good academic performance

2003 — Divisional and Institutional awards for creative writing

Leadership Experience

2022 — Served as a **Sports Secretary** for Bangladesh Student Association, Oklahoma State University, Stillwater, OK