




Vinu Sankar Sadasivan

II-year PhD Student
Department of Computer Science
The University of Maryland, College Park
[Research Interests](#) — Security & Privacy in Deep Learning

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EDUCATION

The University of Maryland, College Park *Aug '21 – Present*
Ph.D. & M.S. in CS advised by [Prof. Soheil Feizi](#) GPA - 4.00/4.00

Indian Institute of Technology, Gandhinagar *Jul '16 – Jul '20*
B. Tech. in CSE [ [Director's Silver Medalist](#)] GPA - 9.21/10.00

RESEARCH PAPERS

Can AI-Generated Text be Reliably Detected?
VS Sadasivan, A Kumar, S Balasubramanian, W Wang, S Feizi
Preprint on arXiv. March, 2023. [\[PDF\]](#)
Media coverage: [Washington Post](#), [New Scientist](#), [The Register](#), [TechSpot](#)

Provable Robustness for Streaming Models with a Sliding Window
A Kumar, **VS Sadasivan**, S Feizi
Preprint on arXiv. March, 2023. [\[PDF\]](#)

CUDA: Convolution-based Unlearnable Datasets
VS Sadasivan, M Soltanolkotabi, S Feizi
Accepted at Computer Vision and Pattern Recognition Conference (CVPR), 2023. [\[PDF\]](#)

Statistical Measures For Defining Curriculum Scoring Function
VS Sadasivan, A Dasgupta
Accepted ([spotlight](#)) at SubSetML Workshop at International Conference on Machine Learning (ICML), 2021. [\[PDF\]](#)

Shallow RNN: Accurate Time-series Classification On Resource Constrained Device
D Dennis, DAE Acar, V Mandikal, **VS Sadasivan**, V Saligrama, HV Simhadri, P Jain
In Advances in Neural Information Processing Systems (NeurIPS), 2019. [\[PDF\]](#)

High Accuracy Patch-Level Classification Of Wireless Capsule Endoscopy Images Using A Convolutional Neural Network
VS Sadasivan, CS Seelamantula
In IEEE 16th International Symposium on Biomedical Imaging (IEEE ISBI), 2019. [\[PDF\]](#)

RESEARCH EXPERIENCES

IIT Gandhinagar, India *Aug '20 – Jul '21*
Junior Research Fellow in CSE Advisor: [Prof. Anirban Dasgupta](#)

California Institute of Technology, Pasadena *May – Jul '19*
Undergraduate Research Fellow in Astronomy Department Advisor: [Dr. Ashish Mahabal](#)

Microsoft Research India, Bangalore *Jan – Apr '19*
Research Intern in Machine Learning and Optimization Group Advisors: [Dr. Harsha Simhadri](#) & [Dr. Prateek Jain](#)

AWARDS AND HONORS

- [Kulkarni Summer Research Fellowship](#) at University of Maryland in 2023.
- [Notable reviewer](#) top $\sim 1\%$ reviewer in ICLR 2023.
- [Director's Silver Medalist](#) CSE, IIT Gandhinagar in 2020.
- [Special mention for poster](#) Undergraduate Research Conclave, IIT Gandhinagar in 2019.
- [Summer Undergraduate Research Fellow](#) Caltech in 2019 (~ 6350 USD).
- [Kerala State Topper, Regional Mathematics Olympiad](#) in 2014.
- [KVPY awardee](#) by Government of India in 2016. Ranked 85 out of $\sim 100,000$.
- [NTSE scholar](#) awarded by Government of India in 2012.

SERVICES & TEACHING

- I have served as a *reviewer* for prominent machine learning conferences such as ICML 2021, NeurIPS 2022, ICLR 2023 (Notable reviewer), NeurIPS 2023, ICML Neural Compression Workshop 2023.
- I have *assisted in teaching* (TA) CMSC 422: Introduction to Machine Learning (Fall 2021) and CMSC 320: Introduction to Data Science (Spring 2022) at UMD.
- I have been a *Peer-Assisted Learning mentor* at IIT Gandhinagar, helping freshmen who found it difficult to cope with their academic work load.

RESEARCH REPORTS

OSSuM: A Gradient-Free Approach For Pruning Neural Networks At Initialization

VS Sadasivan, J Malaviya, and A Dasgupta [\[PDF\]](#)

Improved Generalized Adaptive Exponential Functional Link Network Approximates

VS Sadasivan, SS Bhattacharjee, V Patel, and NV George [\[PDF\]](#)

FPGA-Based Area, Power, and Latency Optimized Approximate Multipliers For Neural Networks

VS Sadasivan, CK Jha, and J Mekie [\[PDF\]](#)