# Vinu Sankar Sadasivan

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

📞 +1 (240) 945-6837
🏠 vinusankars.github.io
✉ vinu@umd.edu
𝟾 Google Scholar

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## EDUCATION

**The University of Maryland, College Park**                    *Aug ′21 − Present*
MS/PhD 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

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## RESEARCH PAPERS

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

**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, and 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**, and CS Seelamantula
In IEEE 16$^{th}$ International Symposium on Biomedical Imaging (IEEE ISBI), 2019. [PDF]

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## 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

**Indian Institute of Science (IISc), Bangalore**     *May − Jul ′17, Dec ′17, Feb ′18, May − Jul ′18*
*Research Intern at Spectrum Lab for Signal Processing*       Advisor: Prof. Chandra Seelamantula

## Awards And Honors

- 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 ($\sim 6350$ 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.

- 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 Bhattacherjee, 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]