

INTERESTS	Adversarial Robustness in Machine Learning, Optimal Transport, Learning Theory, Graphs	
EDUCATION	University of Wisconsin-Madison , Madison, WI, USA	
	<i>PhD, Electrical Engineering</i>	2019 - Present
	<i>Master of Science, Electrical Engineering</i>	2017 - 2019
	Indian Institute of Technology (IIT) Madras , Chennai, India	
	<i>Bachelor of Technology (Honours), Electrical Engineering</i>	2010 - 2014
EXPERIENCE	University of Wisconsin-Madison , Madison, WI, USA	
	<i>Teaching Assistant (Departments of ECE, CS and Mathematics)</i>	Aug 2017 - May 2019
	<ul style="list-style-type: none"> • Head TA for CS761: Mathematical Foundations of Machine Learning - grad-level class, size 100, taught by Prof. Rob Nowak. Held review sessions, graded homeworks & quizzes • TA for CS532: Matrix Methods for Machine Learning - grad-level class, size 50, taught by Prof. Po-Ling Loh. Ran hands-on deep learning lectures, held review sessions 	
	Indian Institute of Science (IISc) , Bengaluru, India	
	<i>Research Assistant (Statistics and Machine Learning Lab)</i>	Aug 2016 - Jul 2017
	<ul style="list-style-type: none"> • Published a paper on spectral clustering at IEEE Int'l Symposium on Information Theory • Developed deep learning models for classifying underwater sonar signals 	
	Samsung R&D Institute , Bengaluru, India	
	<i>Senior Software Engineer (4G/LTE protocol stack development)</i>	Aug 2014 - Jul 2016
	<ul style="list-style-type: none"> • Published a paper on wireless protocols at IEEE Nat'l Conference on Communications, India. • Developed protocol stack for the largest 4G/LTE deployment project in India 	
	Deutsche Bank , Mumbai, India	
	<i>Summer Intern (Statistical Modeling)</i>	May 2013 - Jul 2013
	<ul style="list-style-type: none"> • Developed time series models to predict longevity rates for pricing insurance products 	
PUBLICATIONS	Indian Space Research Organization , Sriharikota, India	
	<i>Summer Intern (Digital System Design)</i>	Jun 2012 - Jul 2012
	<ol style="list-style-type: none"> 1. Muni Sreenivas Pydi and Varun Jog. "Adversarial Hypothesis Testing via Unbalanced Optimal Transport." <i>Manuscript</i>, 2020. 2. Muni Sreenivas Pydi and Varun Jog. "Adversarial Risk via Optimal Transport and Optimal Couplings." ICML 2020. (Full paper under review at IEEE Transactions on Information Theory) 3. Muni Sreenivas Pydi and Vishnu Lokhande. "Active Learning with Importance Sampling." <i>NeurIPS Workshop on ML with Guarantees</i>, December 2019. 4. Muni Sreenivas Pydi, Varun Jog and Po-Ling Loh. "Graph-Based Ascent Algorithms for Function Maximization." <i>Allerton Conference on Communication, Control and Computing</i>, 2018. 5. Muni Sreenivas Pydi, and Ambedkar Dukkipati. "On Consistency of Compressive Spectral Clustering." IEEE International Symposium on Information Theory (ISIT), June 2018. 6. Karthik Nagasubramanian, and Muni Sreenivas Pydi. "Random access retransmission scheme for power limited nodes." <i>23rd IEEE National Conference on Communications (NCC)</i>, 2017. 7. Ashwin Guha, Muni Sreenivas Pydi, Biswajit Paria and Ambedkar Dukkipati. "Analytic Connectivity of General Hypergraphs." <i>arXiv preprint arXiv:1701.04548</i>, 2017. 	
SKILLS	Programming: Python, MATLAB, C, Java, R Machine Learning: PyTorch, Keras, scikit-learn	
GRADUATE COURSES	Machine Learning (ML)/CS: Theoretical ML, Foundations of ML, Advanced Learning Theory, Large Scale ML & Optimization, Optimal Transport for ML, Advanced Algorithms	
	Statistics/Math/Control: Robust Statistics, Optimization in Statistics, Analysis I-II, Real Analysis, Topics in Probability, Information Theory, Linear Systems, Nonlinear Systems	