

Arpit Agarwal

CONTACT INFORMATION	Department of Computer and Information Science University of Pennsylvania E-mail: aarpit@seas.upenn.edu WWW: http://www.seas.upenn.edu/~aarpit/
RESEARCH INTERESTS	Machine Learning, Learning Theory, Information Elicitation
EDUCATION	University of Pennsylvania Philadelphia, USA Ph.D. in Computer & Information Science 2016 – present Advisor: Shivani Agarwal Indian Institute of Science Bangalore, India M.E. in Computer Science & Engineering 2012 – 2014 Thesis Title: <i>GEV-canonical regression for accurate binary class probability estimation when one class is rare</i> CGPA: 7.4/8.0 (<i>Best Student in M.E. CSE</i>) Kamla Nehru Institute of Technology Sultanpur, India B.Tech. (Hons.) in Computer Science & Engineering 2008 – 2012 Percentage Marks: 75.17%
RESEARCH VISIT	Research Fellow at SEAS, Harvard University (September 1, 2015 – December 15, 2015) Worked with Prof. David Parkes on multi-task information elicitation.
PUBLICATIONS	Shnayder, V., Agarwal, A., Frongillo, R. and Parkes D.C., Informed Truthfulness in Multi-Task Peer Prediction . In <i>Proceedings of the 17th ACM Conference on Economics and Computation (EC)</i> , 2016. Agarwal, A. and Agarwal, S., On Consistent Surrogate Risk Minimization and Property Elicitation . In <i>Proceedings of the Conference on Learning Theory (COLT)</i> , 2015. Agarwal, A., Narasimhan, H., Kalyanakrishnan, S. and Agarwal, S., GEV-Canonical Regression for Accurate Binary Class Probability Estimation when One Class is Rare . In <i>Proceedings of the 31st International Conference on Machine Learning (ICML)</i> , 2014.
ACHIEVEMENTS AND AWARDS	<ul style="list-style-type: none">• Awarded student volunteer scholarship for ICML 2014, ICML 2015.• Travel Grant from Google India for presenting a paper at ICML 2014, COLT 2015.• Computer Society of India (Bangalore Chapter) Medal for best M.E. student in computer science & engineering, Indian Institute of Science, Bangalore, 2014.• Secured all India rank 30 in Graduate Aptitude Test in Engineering (GATE) 2012 (out of around 150,000 students).• Merit scholarship awards from UP state government and Bharat Sanchar Nigam Limited (BSNL) during all years in B.Tech., KNIT, Sultanpur, 2008 – 2012.

GRADUATE COURSES	<p>Fall 2012 Probability & Statistics Design and Analysis of Algorithms Program Analysis & Verification Operating Systems</p>	<p>Spring 2013 Machine Learning Game Theory DBMS Automated Verification</p>
	<p>Fall 2013 Statistical Learning Theory Computational Methods of Optimization Linear Algebra</p>	<p>Fall 2014 Real Analysis Information Theory</p>
	<p>Fall 2015 Advanced Machine Learning (MIT, Audit)</p>	
TEACHING EXPERIENCE	<ul style="list-style-type: none"> • Teaching Assistant, IISc E0 270 Machine Learning, Spring 2016 Responsibilities: tutorials on optimization, mentoring student projects, regular TA hours, setting up and correction of assignments, website maintainance. 	
TALKS/ PRESENTATIONS	<ul style="list-style-type: none"> • “On Consistent Surrogate Risk Minimization and Property Elicitation”, ACM IKDD, Pune, India, 2016. • “Connections between Calibrated Surrogates in Supervised Learning and Property Elicitation in Probability Forecasting”, Presented at Harvard EconCS group meeting, Harvard University, 2015. • “GEV-Canonical Regression for Accurate Binary Class Probability Estimation when One Class is Rare”, International Conference on Machine Learning (ICML), Beijing, China, 2014. • “Randomization at work: An Introduction to Randomized Algorithms”, CSA Undergraduate Summer School, Indian Institute of Science, Bangalore, 2013. 	
PROGRAMMING SKILLS	<p>C, Java, Matlab, Python, L^AT_EX</p>	
ORGANIZATIONAL ACTIVITIES	<ul style="list-style-type: none"> • Member of Departmental Curriculum Committee, CSA, IISc, 2015-2016. • Lead volunteer for Big Data Initiative, CSA, IISc, 2014. • Volunteer for Indo-US Lectures Week in Machine Learning, Game Theory and Optimization, 2014. • Organizer of machine learning programming contest TagMe! in CSA Open Days, Indian Institute of Science, 2014. • Organizer of C programming contest in Effulgence, Kamla Nehru Institute of Technology, 2011. 	
REFERENCES	<p>Available upon request.</p>	