## Piyush Bhardwaj

Contact Information	S-4, Infant Enclave, 2nd Cross Road Off Cambridge Road Bangalore, KA 560008 India	Tel: 94 52 960 923 E-mail: bhardwaaj.piyush@gmail.com WWW: http://piyushbhardwaj.github.io/
Research Interests	Machine learning and applications, kernel methods and optimization	
Education	Indian Institute of Technology, Kanpur, India	
	<ul> <li>Masters of Technology, Computer Science, 2013 (expected graduation: May 2015)</li> <li>GPA: 9.71/10 Advisors: Harish Karnick &amp; Prateek Jain</li> </ul>	
	Indian Institute of Technology, Kanpur, India	
	B.Tech-M.Tech Dual Degree, Mechanical Engineering, 2012	
	<ul> <li>GPA (M.Tech): 9.33/10</li> <li>GPA (B.Tech): 8.6/10 Advisors: Kalyanmoy Deb &amp;</li> </ul>	Bhaskar Dasgupta
Thesis	<b>P. Bhardwaj</b> , 2015. Efficient low rank approximation via alternate least squares for scalable kernel learning. [thesis]	
Publications	<b>P. Bhardwaj</b> , H. Karnick. 2016. Efficient low rank approximation via alternating least squares for scalable kernel learning.24 <sup>th</sup> European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN).(Accepted)	
	Drozd. 2012. On optimization algo	demir, E. Masazade, C. K. Mohan, P. K. Varshney, and A. L. orithms for the design of multiband cognitive radio networks. In nference on Information Sciences and Systems (CISS), Princeton
		Deb, K. 2013. Modelling the Pareto-optimal set using B-spline i-objective optimization problems. In Engineering Optimization, aper]
		eb,K2013. Unified Approach In Evolutionary Computation For lobal Optimization. Volume 55, Issue 4, pp 771-799 [paper]
	<b>U</b>	eb,K2010. Improving Differential Evolution by Altering Steps ce on Simulated Evolution and Learning 2010, Springer LNCS.
		demir, A.Panwar, C. K. Mohan, P. K. Varshney, and A. L. Drozd. ive Radio Networks: Single- and Multiobjective Approaches. In
Scholastic Achievements	Ranked <b>first</b> (class of 70 master students) in the department of computer science and engineering	

	Awarded Academic Excellence Award (awarded to top 5%) for outstanding academic performance in year 2013-14		
	${\bf CBSE}$ scholorship for undergraduate studies based on outstanding performance in AIEEE'07		
	Secured All India Rank 693 in the IIT Joint Entrance Exam, 2007 out of more than 250,000 applicants		
	Secured <b>All India Rank 159</b> in All India Engineering Enterance Exam (AIEEE'07) out of more than 600,000 applicants		
Competitions	<b>First prize</b> in Yahoo! Hack-U 2013 (among 76 teams). Ideated and implemented an application for automatic extraction of highlights from sports video using audio signal processing		
	Ranked <b>second</b> among more than 600 teams in Tagme-Image recognition competition organized by Indian Institute of Science, Bangalore		
Work Experience	Microsoft, Bing Ads, Bangalore, India		
	Software Development EngineerAug, 2015 - PresentProject: Sensitivity Detection in Online Articles		
	• Primary responsibility includes blocking ads on MSN articles with sensitive content		
	• Implemented linear SVM based model in production code based on BOW features		
	• Set up a pipeline for human labelling of articles for collecting training data		
	• Significant improvement over a dictionary based lookup employed earlier		
	Microsoft, Bing Ads Applied Research, Bangalore, India		
	Intern May, 2014 - July, 2014		
	Project: Co-clustering algorithms for click prediction		
	• Implemented machine learning algorithms for co-clustering to improve click prediction		
	• Carried out rigorous experimentation to validate the results		
	• Awarded a job offer by Microsoft India based on the performance		
	Citigroup, Global Decision Management, Bangalore, India		
	Analyst June, 2012 - July, 2013		
	• Built mathematical models to predict customer behaviour on credit card transactions.		
	• Used techniques like logistic regression, decision trees, PCA etc. for predictive modeling		
	Syracuse Univesity, Syracuse, New York USA		
	Summer Intern May, 2011 - July, 2011		
	• Proposed and implemented algorithms in C and MATLAB to solve optimization problems for dynamic resource allocation in cognitive radio networks		
	• Investigated several single and multi objective optimization problems related to sum-rate max- imization, power minimization and fair allocation in omni directional and directional underlay cognitive radio networks		
Computer Skills	• Programming Languages: C, C++, Java		

Programming Languages: C, C++, Java
Tools: MATLAB, SAS, LATEX