

# Abhinav Mukund Kulkarni

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EDUCATION	University of California, Irvine Master of Science, Computer Science, 3.77/4.0 National Institute of Technology, Tiruchirapally, India Bachelor of Science, Computer Science, 8.34/10.0			2011 – 2013 (Expected) 2005 – 2009
GRADUATE COURSEWORK	Machine Learning Statistical Computing Bayesian Statistics Data Structures	Probabilistic Learning Intermediate Statistics I & II Information Retrieval Computer Architecture	Probabilistic Graphical Models Statistical Methodology I & II Principles of Data Management	
RESEARCH WORK	Master's Thesis: Board Evaluation Strategies for the Game of Go Advisor: Prof. Alexander Ihler • Modeling Go board using grid-based Graphical Models • Designing efficient board evaluation and territory prediction algorithms using local patterns and couplings between adjacent stones			UC Irvine April 2012 – Current
	Analysis of Open Source Java Projects Graduate Student Researcher, Prof. Crista Lopes's Research Grant https://github.com/abhinavkulkarni/topic-modeling • Topic modeling (LDA) of open-source Java projects to identify cross-cutting concerns • Characterization of development curve of projects in terms of complexity of projects measured by amount of cross-cutting between concerns			UC Irvine June - December 2012
WORK EXPERIENCE	Microsoft Corporation, Search Technology Center Software Development Engineer • Improved relevance of search queries in specific segments by mining user click patterns from Internet Explorer and Microsoft Toolbar logs • Incorporated offline-computed geospecific popularity of websites in search engine ranking model • Contributed to improving relevance of location queries by mining data from location sites			Hyderabad, India October 2009 – August 2011
PROJECT WORK	Chemistry Publication Corpus Analysis • Worked on the hypothesis that Chemistry is more closed in terms of collaboration among researchers than other Physical Sciences such as Physics and Mathematics • Analysed the graph of publication authors from reputed journals induced by co-authorship and affiliations and contrasted Chemistry with other Physical Sciences			Winter 2012, UC Irvine
	Heritage Provider Network Health Prize • Participated in HHP Prize competition hosted by Kaggle, a predictive modeling and analytics platform • Implemented machine learning algorithms to identify potential patients to be admitted to a hospital within next year using historical claims, drug and lab data			Fall 2011, UC Irvine
TEACHING EXPERIENCE	Teaching Assistant • Conducted lab sessions for Python programming course • Assisted students in projects in User Interaction Software course			Winter 2013, UC Irvine
SKILLS	Languages: C, C++, Java (Intermediate), R, MATLAB Packages/Tools: Eclipse, Visual Studio Technologies: Apache Hadoop (Intermediate)			
AWARDS	Team mentioned in the special meritorious list of ACM ICPC 2008, South Asia Region.			
LEADERSHIP	Marketing Head for Fine Arts Society of NIT Tiruchirapalli. Event Manager for CSurf '09, the online programming contest conducted in Vortex '09, the annual departmental symposium of CSE department of NIT Tiruchirapalli.			
EXTRA CURRICULAR	Winner of gold medal in swimming contests held in sports events of NIT Tiruchirapalli. Community service through National Service Scheme (NSS) involving forestation.			