

# Abhinav Mukund Kulkarni

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EDUCATION	<b>University of California, Irvine</b> 2011 – 2013 (Expected) Master of Science, Computer Science, 3.81/4.0		
	<b>National Institute of Technology, Tiruchirapally, India</b> 2005 – 2009 Bachelor of Science, Computer Science, 8.34/10.0		
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	<b>Master’s Thesis:</b> Board Evaluation Strategies for the Game of Go <i>Advisor: Prof. Alexander Ihler</i> <ul style="list-style-type: none"><li>Modeling Go board using grid-based Graphical Models.</li><li>Designing efficient board evaluation and territory prediction algorithms that use local patterns and couplings between adjacent stones.</li></ul>		UC Irvine April 2012 – Current
	<b>Analysis of Open Source Java Projects</b> <i>Graduate Student Researcher, Prof. Crista Lopes’s Research Grant</i> <a href="https://github.com/abhinavkulkarni/topic-modeling">https://github.com/abhinavkulkarni/topic-modeling</a> <ul style="list-style-type: none"><li>Topic modeling (LDA) of open-source Java projects to identify cross-cutting concerns.</li><li>Characterization of development curve of projects in terms of complexity of projects measured by amount of cross-cutting between concerns.</li></ul>		UC Irvine June - December 2012
WORK EXPERIENCE	<b>Microsoft Corporation, Search Technology Center</b> <i>Software Development Engineer</i> <ul style="list-style-type: none"><li>Improved relevance of search queries in specific segments by mining user click patterns from Internet Explorer and Microsoft Toolbar logs.</li><li>Incorporated offline-computed geospecific popularity of websites in search engine ranking model.</li><li>Contributed to improving relevance of location queries by mining data from local sites.</li></ul>		Hyderabad, India October 2009 – August 2011
PROJECT WORK	<b>Chemistry Publication Corpus Analysis</b> <ul style="list-style-type: none"><li>Worked on the hypothesis that Chemistry is more closed in terms of collaboration among researchers than other Physical Sciences such as Physics and Mathematics.</li><li>Analysed the graph of authors of publications from reputed journals induced by co-authorship and affiliations and contrasted Chemistry with other Physical Sciences.</li></ul>		Winter 2012, UC Irvine
	<b>Heritage Provider Network Health Prize</b> <ul style="list-style-type: none"><li>Participated in HHP Prize competition hosted by Kaggle, a predictive modeling and analytics platform.</li><li>Implemented machine learning algorithms to identify potential patients to be admitted to a hospital within next year using historical claims, drug and lab data.</li></ul>		Fall 2011, UC Irvine
TEACHING EXPERIENCE	<b>Teaching Assistant</b> <ul style="list-style-type: none"><li>Conducted lab sessions for Python programming course.</li><li>Assisted students in projects in User Interaction Software course.</li></ul>		Winter 2013, UC Irvine
SKILLS	<b>Languages:</b> C, C++, Java (Intermediate), R, MATLAB <b>Packages/Tools:</b> Eclipse, Visual Studio <b>Technologies:</b> 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.		