

# Abhinav Mukund Kulkarni

3900 30C, Parkview Lane, Irvine, CA, 92612, United States; 512 658 7456; abhinavkulkarni@gmail.com; WWW

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EDUCATION	<b>University of California, Irvine</b> Master of Science, Computer Science, 3.77/4.0		2011 – 2013 (Expected)
	<b>National Institute of Technology, Tiruchirapally, India</b> Bachelor of Science, Computer Science, 8.34/10.0		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	<b>Master’s Thesis:</b> Focus on Probabilistic Graphical Models <i>Advisor: Prof. Alexander Ihler</i> Currently working on board evaluation strategies for the game of Go using probabilistic graphical models.		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-modelling">https://github.com/abhinavkulkarni/topic-modelling</a> Topic modelling (LDA) analysis of open source Java projects to characterize their software development processes. Using LDA we identified cohesive areas of functionalities such as logging or network I/O in the source code. We drew project-wide statistics such as cross-cutting of these functionalities to characterize the development of a project.		UC, Irvine June - December 2012
WORK EXPERIENCE	<b>Microsoft Corporation, Search Technology Center</b> <i>Software Development Engineer</i> The focus was on improving relevance of algorithmic search overall as well as in specific segments by employing statistical methods to mine information from user click patterns from Internet Explorer and Microsoft Toolbar user click logs. My work on relevance of local search queries (containing locations) and offline computation of geo-specific popularity of websites resulted in new features incorporated in Bing search engine.		Hyderabad, India October 2009 – August 2011
	<b>Teaching Assistant</b> Conducted lab sessions for Python programming course and assisted students with projects in User Interaction Software course.		Fall 2013, UC Irvine
PROJECT WORK	<b>Chemistry Corpus Analysis</b> We worked on the hypothesis that Chemistry is more closed in terms of collaboration among researchers than other Physical Sciences such as Physics and Mathematics. We 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
	<b>Heritage Provider Network Health Prize</b> Participated in HHP Prize competition hosted by Kaggle, a predictive modeling and analytics platform. Implemented machine learning algorithms to identify patients admitted to a hospital within next year using historical claims, drug and lab data.		Fall 2011, 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.		