Abhinav Mukund Kulkarni

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EDUCATION	**University of California, Irvine**	2011 – 2013 (Expected)
	Master of Science, Computer Science, 3.77/4.0	
	National Institute of Technology, Tiruchirapally, India	2005 – 2009
	Bachelor of Science, Computer Science, 8.34/10.0	

GRADUATE COURSEWORK

Machine Learning	Probabilistic Learning	Probabilistic Graphical Models
Statistical Computing	Intermediate Statistics I & II	Statistical Methodology I & II
Bayesian Statistics	Information Retrieval	Principles of Data Management
Data Structures	Computer Architecture	

RESEARCH WORK

Master's Thesis: Focus on Probabilistic Graphical Models — UC Irvine
Advisor: Prof. Alexander Ihler — April 2012 – Current
Currently working on board evaluation strategies for the game of Go using probabilistic graphical models.

Analysis of Open Source Java Projects — UC, Irvine
Graduate Student Researcher, Prof. Crista Lopes's Research Grant — June - December 2012
https://github.com/abhinavkulkarni/topic-modelling
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.

WORK EXPERIENCE

Microsoft Corporation, *Search Technology Center* — Hyderabad, India
Software Developement Engineer — October 2009 – August 2011
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.

Teaching Assistant — Winter 2013, UC Irvine
Conducted lab sessions for Python programming course and assisted students with projects in User Interaction Software course.

PROJECT WORK

Chemistry Corpus Analysis — Winter 2012, UC Irvine
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.

Heritage Provider Network Health Prize — Fall 2011, UC Irvine
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.

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.