# Abhinav Mukund Kulkarni

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| **EDUCATION** | **University of California, Irvine**      2011 - 2013 (Expected) |

**EDUCATION**

**University of California, Irvine**                                    2011 - 2013 (Expected)
Master of Science, Computer Science, 3.76/4.0

**National Institute of Technology, Tiruchirapalli, India**         2005 - 2009
Bachelor of Technology, Computer Science, 8.34/10.0

**COURSEWORK**

Fall '11: Intermediate Statistics A, Machine Learning, Data Structures
Winter '12: Intermediate Statistics B, Statistical Methodology II, Probabilistic Learning, Information Retreival
Spring '12: Statistical Computing, Graphical Models, Computer Architecture

**WORK EXPERIENCE**

**University of California, Irvine**, *Prof. Crista Lopes's Research Grant*  Irvine, U.S.
*Graduate Student Researcher*                                    June 2012 - Current
Analysis of open-source Java projects for identification of software aspects and concerns as latent topics using topic modelling (LDA) to quantify scattering of topics across a project and their tangling. Overall effort was a part of comparative study of Object and Aspect Oriented Programming paradigm.

**Microsoft Corporation**, *Search Technology Center*               Hyderabad, India
*Software Development 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.

**PROJECT WORK**

**Master's Thesis:** Focus on Probabilistic Graphical Models      April 2012 - Current

**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 authors of publications from reputed journals induced by co-authorship and affiliation relations and contrasted Chemistry with other Physical Sciences.

**Heritage Provider Network Health Prize**                       Fall 2011, UC Irvine
Participated in HHP Prize competition hosted by popular data modeling and prediction platform Kaggle. Implemented machine learning algorithms to identify patients who will be admitted to a hospital within next year using historical claims, drug and lab data.

**SKILLS**

**Languages:** C, C++, Java (Intermediate)
**Packages/Tools:** R, Eclipse, Visual Studio, MATLAB, Octave

**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.