

# Abhinav Mukund Kulkarni

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| EDUCATION              | <b>University of California, Irvine</b><br>Master of Science, Computer Science, 3.81/4.0  |  |   | 2011 – 2013 (Expected)                         |
|                        | <b>National Institute of Technology, Tiruchirapally, India</b><br>Bachelor of Science, Computer Science, 8.34/10.0  |  |   | 2005 – 2009                                    |
| GRADUATE<br>COURSEWORK | Machine Learning<br>Statistical Computing<br>Bayesian Statistics<br>Data Structures   | Probabilistic Learning<br>Intermediate Statistics I & II<br>Information Retrieval<br>Computer Architecture | Probabilistic Graphical Models<br>Statistical Methodology I & II<br>Principles of Data Management |  |
| RESEARCH<br>WORK       | <b>Master's Thesis:</b> Board Evaluation Strategies for the Game of Go<br><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<br>April 2012 – Current              |
|                        | <b>Analysis of Open Source Java Projects</b><br><i>Graduate Student Researcher, Prof. Crista Lopes's Research Grant</i><br><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<br>June - December 2012              |
| WORK<br>EXPERIENCE     | <b>Microsoft Corporation, Search Technology Center</b><br><i>Software Development Engineer</i> <ul style="list-style-type: none"><li>Contributed to improving relevance of location queries by mining data from local sites.</li><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 ranker.</li></ul>   |  |   | Hyderabad, India<br>October 2009 – August 2011 |
| PROJECT<br>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>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<br>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<br><b>Technologies:</b> Apache Hadoop (Intermediate)  |  |   |  |
| AWARDS                 | Team mentioned in the special meritorious list of ACM ICPC 2008, South Asia Region.   |  |   |  |
| ACHIEVEMENTS           | Solved 130+ problems on SPOJ, was ranked in top 300 as of December 2010.<br><a href="http://www.spoj.com/users/amkulkarni">http://www.spoj.com/users/amkulkarni</a>   |  |   |  |
| LEADERSHIP             | Marketing Head for Fine Arts Society of NIT Tiruchirapalli.<br>Event Manager for CSurf '09, the online programming contest conducted in Vortex '09, the annual departmental symposium of CSE department of NIT Tiruchirapalli.  |  |   |  |
| EXTRA<br>CURRICULAR    | Winner of gold medal in swimming contests held in sports events of NIT Tiruchirapalli.<br>Community service through National Service Scheme (NSS) involving forestation.  |  |   |  |