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: Board Evaluation Strategies for the Game of Go   UC Irvine

Advisor: Prof. Alexander Ihler   April 2012 − Current

- Modeling Go board using grid-based Graphical Models.
- Designing efficient board evaluation and territory prediction algorithms that use local patterns and couplings between adjacent stones.

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-modeling`

- Topic modeling (LDA) of open-source Java projects to identify cross-cutting concerns.
- Characterization of development curve of projects in terms of complexity of projects measured by amount of cross-cutting between concerns.

WORK EXPERIENCE

Microsoft Corporation, *Search Technology Center*   Hyderabad, India

Software Developement Engineer   October 2009 − August 2011

- Improved relevance of search queries in specific segments by mining user click patterns from Internet Explorer and Microsoft Toolbar logs.
- Incorporated offline-computed geospecific popularity of websites in search engine ranking model.
- Contributed to improving relevance of location queries by mining data from local sites.

PROJECT WORK

Chemistry Publication Corpus Analysis   Winter 2012, UC Irvine

- Worked on the hypothesis that Chemistry is more closed in terms of collaboration among researchers than other Physical Sciences such as Physics and Mathematics.
- Analysed the graph of authors of publications 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 potential patients to be admitted to a hospital within next year using historical claims, drug and lab data.

TEACHING EXPERIENCE

Teaching Assistant   Winter 2013, UC Irvine

- Conducted lab sessions for Python programming course.
- Assisted students in projects in User Interaction Software course.

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.