Tanvi Jindal

CONTACT INFORMATION

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RESEARCH INTERESTS

Data Mining, Machine Learning, Text Mining

EDUCATION

Master of Science in Computer Science   **Aug'12 - May'14**
University of Illinois at Urbana-Champaign, USA

- GPA - 4.0
- Coursework: Data Mining, Machine Learning, Advanced Data Mining, Text Information Systems, Distributed Systems, Advanced Information Retreival

B. Tech in Computer Science and Engineering   **Aug'08 -May'12**
Indian Institute of Technology, Roorkee, India

- GPA - 9.21 on a scale of 10
- Coursework : Artificial Intelligence, Databse Management, Artificial Neural Networks, Operating Systems, Distributed Operating Systems, Computer Networks, Compilers, Theory of Computation, Cryptography, Optimization Techniques

RELEVANT EXPERIENCE

- **Intern**, Google Inc, Mountain View   **May'13 - Aug'13**
  - Intern in the legal removals team, to improve the quality of search results
  - Creating sitestats tool to display host-based statistics and allow users to add the site to auto-approve list
- **Research Assistant**   **Spring 2013**
  Data Mining Research Group, UIUC
- **Finding common routes from a city's traffic data**   **Aug'12 - present**
  Mentor: Prof. Jiawei Han, University of Illinois at Urbana-champaign
  - Finding frequently traversed trajectories and periodic patterns from the huge amount of traffic data using information about the road network
  - Using the mined patterns to effectively summarize the data and use it in applications like traffic management systems
- **Identifying authors of posts and comments from forum data**   **Fall 2012**
  Mentor: Prof. Dan Roth, University of Illinois at Urbana-champaign
  - Different features of the written text like syntactic features, semantic features, and context-based features can be used to profile the author of the text
  - Main challenge with forum data is the large set of possible candidates, and a small set of seen data for each candidate author.
- **Teaching Assistant**   **Fall 2012 and Fall 2013**
  CS-411, Database Systems
- **Content Intelligence System for e-Learning documents**   **Jul'11 - May'12**
  Mentors : Dr. Durga Toshniwal, IIT Roorkee
  Mr. Anandhavelu Natarajan, Adobe Systems
  - Identified important statistical and semantic features of a PowerPoint document using human evaluations

- Used machine learning to learn these features to identify keywords from the PowerPoint and to annotate the PPT with other relevant contents based on the keywords
- **Intern, Adobe Systems India Private Limited,** Bangalore **May'11 - Jul'11**
  Mentor : Mr. Sony Kadavan, Adobe Systems
  - Interned in the Advanced Technology Labs of Adobe Systems
  - Identification of keywords from a PowerPoint documents using the slide titles as seed words and using Text Mining approaches. Extended later using machine learning approaches to improve accuracy and flexibility.

RESEARCH PAPERS

- Tanvi Jindal, Prasanna Giridhar, Lu-An Tang, Jun Li and Jiawei Han. Spatiotemporal Periodic Pattern Mining in Traffic Data.In *In ACM SIGKDD International Workshop on Urban Computing, UrbComp 2013*
- Jun Li, Jingjing Wang, Qiming Qin, Tanvi Jindal, and Jiawei Han. Detecting mixed periodic patterns from moving object data. In *International Journal of Geographical Information Science* (Full Paper, under review)

COMPUTER SKILLS

Programming Languages : C++, Python, JAVA, C, HTML, CSS, SQL, HTML
Software Packages: Eclipse, LATEX, NLTK, Weka, MATLAB, WAMP, Flash

AWARDS AND ACHIEVEMENTS

- Computer Science Department Grace Hopper Celebration Scholarship for 2013
- Received Merit-cum-Means scholarship during the first three years of my bachelor's degree
- Achieved rank in the top 0.001 percent students in the Joint Entrance Examination (JEE), 2008

LEADERSHIP

Graduate Representative, Women in Computer Science, UIUC   **May'13-present**
- Promoting communication between graduate and undergraduate students
- Leading undergraduate students and motivating them towards higher studies

Secretary, Sarojini Bhawan Mess, IIT Roorkee   **Aug'11 - May'12**
- Looked over the menu, billing and other functions of the mess
- Member of the *Student Affairs Council* of the Institute and helped in solving student concerns by bringing them to the authorities

National Service Scheme, IIT Roorkee
- **Secretary**, Social Awareness Cell   **Aug'10 - May'11**
- **Joint Secretary**, Social Awareness Cell   **Aug'09 - May'10**
- Organized and participated in street plays and stage plays on social issues, taught underpriveleged children and volunteerd and donated blood in donation camps

EXTRACURRICULAR ACTIVITIES

Energy Security   **Cognizance 2011**
Awarded third position in the event Energy Security for presenting a future plan for energy development and utilization using Solar energy and Hydrogen power.

Information Management Group   **2008 - 2010**
The group manages the institute website and the Institute Intranet which has different applications for students