

Research Interest Natural language processing, social networks and machine learning.

Education **Stanford University** 2009 - Present
PhD Candidate in Computer Science Advisor: Christopher D. Manning

University of Texas at Austin 2007 - 2009
Masters in Computer Science (with thesis) Advisor: Raymond J. Mooney
Thesis: Activity Retrieval in Closed Captioned Videos

Indian Institute of Technology (IIT) Roorkee 2003 - 2007
Bachelor of Technology in Computer Science GPA: 9.0/10, Dept. Rank: 2

Publications **Identifying Focus, Techniques and Domain of Scientific Papers**
NIPS Computational Social Science and the Wisdom of Crowds **Workshop** 2010
Authors: Sonal Gupta and Christopher D. Manning

Using Closed Captions as Supervision for Video Activity Recognition
AAAI Conference on Artificial Intelligence (**AAAI**) 2010
Authors: Sonal Gupta and Raymond J. Mooney

Using Closed Captions to Train Activity Recognizers that Improve Video Retrieval
CVPR Visual and Contextual Learning (VCL) **Workshop** 2009
Authors: Sonal Gupta and Raymond J. Mooney

Catching the Drift: Learning Broad Matches from Clickthrough Data
SIGKDD Conference on Knowledge Discovery and Data Mining (**KDD**) 2009
Authors: Sonal Gupta, Mikhail Bilenko and Matthew Richardson

Watch, Listen & Learn: Co-training on Captioned Images and Videos
European Conference on Machine Learning (**ECML PKDD**) 2008
Authors: Sonal Gupta, Joohyun Kim, Kristen Grauman and Raymond J. Mooney

Work Experience **Microsoft Research** Research Intern
Redmond, WA Summer 2008
Worked on learning a similarity function for online advertising using clickthrough logs.

Google R&D Center Software Intern
Bangalore, India Summer 2006
Implemented and tested the boosting machine learning technique, using sequential and parallel update, for classifying shopping web pages

Other Projects **Retrieval of IPR Violation Cases Precedents Using Text Mining**
Senior Year 2007
Applied Case Based Reasoning and Semi-Supervised learning to classify legal cases depending on certain factors and then retrieving similar cases for a given legal case. Awarded Institute Silver Medal for **Best B. Tech. Project** 2007 in Computer Science and Engineering at IIT Roorkee

IIT Roorkee Alumni and Thinktank Web Portal, Project Lead
Senior Year 2007
Led a team of students to develop IIT Roorkees Alumni website and Thinktank - a discussion platform for IIT Roorkees alumni, students, and faculty

Verbal Human Web Interface
Summer 2006
Developed a web browser to accept voice commands for web navigation. Selected for Summer Undergraduate Research Award (SURA) at IIT Roorkee.

Research Papers and Projects

Sophomore Year 2004

Developed an intranet portal for IIT Roorkee faculty and students to upload their research papers and projects on the Institute's website.

Activities

UT Austin Teaching Assistant

Fall 2007

Teaching Assistant for the course 'Theory in Programming Practice', and led one discussion section.

UT Austin Research Assistant

Spring 2008 - Summer 2009

Research assistant with the machine learning lab working on learning from multimodal data of video and text.

Information Management Group, IIT Roorkee

Fall 2003 - Spring 2007

A volunteer student group responsible for development and maintenance of web-based solutions and portals for the Institute. Technical Coordinator in the senior year.

Awards

School of Engineering fellowship at Stanford University, Fall 2009 to Spring 2010

Selected as finalist for Google Anita Borg Scholarship, March 2009

Institute Silver Medal for Best B. Tech. project (thesis) in Computer Science at IIT Roorkee, 2007

Next Best Girl Award among undergraduate girls in senior year, IIT Roorkee, 2007

Certificate of Merit in Summer Undergraduate Research Award 2005, IIT Roorkee

Third, 'Prayaas' competition at Technical Festival of IIT Bombay in 2006