

Sandeep Sripada

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INFORMATION *e-mail:* ssandeep@cs.stanford.edu; *www:* <http://cs.stanford.edu/~ssandeep/>

RESEARCH INFORMATION Information Retrieval, Data Mining, Natural Language Processing, Machine Learning and applications on the Semantic Web.

EDUCATION **Stanford University**, CA, USA *Sep 2009 - June 2011*
Masters in Computer Science GPA: 3.91/4.0
Specialization: Artificial Intelligence

Birla Institute of Technology & Science, Pilani, India *May 2003 - June 2007*
B.E.(Hons.) Computer Science GPA: 9.21/10.0 (*Distinction*)

RELEVANT COURSEWORK *At Stanford:* Machine Learning, Principles & Techniques of Artificial Intelligence, Information Retrieval & Web Search, Data Mining, Natural Language Processing, Social and Information Network Analysis, Computational Advertising, Probabilistic Models, Social Data Mining, Introduction to Computer Vision, General Game Playing, Scalable Web Programming, Database & Information Systems Seminar, Economics of Software, Seminar on People, Computers, and Design.

At BITS: Data Structures and Algorithms, Theory of Computation, Database Systems, Advanced Computer Organization, Discrete Structures for Computer Science, Computer Programming I&II, Object Oriented Programming (OOP), Fuzzy Logic & Applications.

TECHNICAL SKILLS **Languages:** Scala, JAVA, Python, Typescript, C/C++, Perl, SQL.
Others: Scalding, Pig, Hive, Matlab, Lucene, L^AT_EX!

ACADEMIC & PROFESSIONAL EXPERIENCE **Frec, San Francisco** *Founding Engineer (Sep 21 - Present)*
Working on all aspects of building Frec!

Twitter, San Francisco *Software Engineer (Oct 13 - Sep 21)*
Ads: Worked on building tweet models for detecting policy violation, risk prediction.
Ads: Worked on Brand Syndication building targeting products for our brand advertisers to reach audiences on-twitter & off-twitter by leveraging Mopub.
Ads: Tech lead building of Video and App install ad products.
Content: Worked briefly to formulate plan to unify various projects aimed at increasing content generated on Twitter.

Apple Inc., Cupertino *Software Engineer (Jul 11 - Oct 13)*
Maps Data Insights: Worked on analyzing location data to improve maps.
Internet Services Advanced Data Analytics: As part of the Internet Services Advanced Data Analytics team, I was involved in designing a solution for fraud detection in user reviews which is currently being implemented. I also worked on building a system to detect book fraud.

Stanford University *Teaching Assistant (Apr 11 - Jun 11)*
Worked with Pandu Nayak and Prabhakar Raghavan on a graduate level course (CS 276 - Information Retrieval & Web Search).

BMIR, Stanford *Research Assistant (Sep 10 - Mar 11)*
Involved in the 'Data Driven Medicine' project at Shah lab (Biomedical Informatics Research). Worked on large datasets to apply Machine Learning and Data Mining techniques to predict outcomes, related drugs and diseases, off-label usage.

Apple Inc., Cupertino*Intern (Jun 10 - Dec 10)*

I was involved in designing a prototype solution for fraud detection in user reviews. I also worked on improving components in the system that detects sign-up fraud. (Intern work was also selected for VP presentations).

CSLI, Stanford*Research Assistant (Oct 09 - Jun 10)*

Involved in the 'Dialogue Systems' project at the Center for the Study of Language and Information (CSLI). Currently looking at how audio analysis can help in identifying stress. Also, the application of these stress measures to unit segmentation is being analyzed along with appropriate actions that need to be taken once stress is detected. (Paper accepted at SIGDIAL 2010.)

Adobe Systems Inc., India*Member Technical Staff (Jul 07 - Aug 09)*

Worked with the Adobe Acrobat Connect Pro team on both the back-end and client-side implementation of the product. 7.0 Release: Contributions include server XML APIs, Integration module with BlackBoard (Won the SPOT Award - see below), 7.5 Release: Contributions include design of new DB schema, re-architecture of old schema, implementation (JAVA), web application UI (Flex) for 3rd party Telephony Adapter integration with Adobe Connect Pro. Also worked on building prototypes based on the Adobe 'CoCoMo' framework.

Microsoft Research Lab, India*Research Intern (Jan 07 - Jun 07)*

The project looked at how probability distributions of documents can be used in generating summaries. The summaries were generated based on the hypothesis that a summary would be able to replace or act as a substitute for the document if its probability distribution is similar to that of the original document. Two new summary generation approaches were designed (a) Summary generation by extraction of sentences based on its coverage, (b) Minimum KLD Summary Generation Method and analyzed on the DUC datasets. (Paper accepted at PACLIC 2009)

Summer School on Natural Language Processing*May 07*

Attended the summer school on Natural Language Processing at the Indian Institute of Science (IISc), Bangalore, conducted by Microsoft Research (MSR) India in collaboration with IISc and Department of Science and Technology, Government of India.

Indian Institute of Sciences (IISc), India*Fellowship (May 04 - Jul 04)*

Young Science Fellowship Programme.

PUBLICATIONS - Detection of time-pressure induced stress in speech via acoustic indicators. Special Interest Group on Discourse and Dialogue (SIGDIAL '10). Matthew Frampton, Sandeep Sripada, Ricardo Bion and Stanley Peters.

- Summarization based on document probability distributions. Pacific Asia Conference on Language, Information and Computation (PACLIC '09). Sandeep Sripada and Jagadeesh Jagarlamudi.