
Objective: Interested in working on problems that require a mix of technology and creativity, especially those related to *text analytics* and *information visualization*.

Experience Summary: 6+ years (2+ years in applying **text analytics & innovation techniques** to business problems; 4 years of **software development experience**; includes 3+ years of **research**.)

Education (Post-Graduate)

M. Tech (IT), Dept. of Computer Science and Engg., IIT Bombay, in 2007: **CPI: 9.5**

B.E (Computers), Govt. College of Engineering, Pune, 2001: **73.20% (final year)**

Professional (6+ years)

Current Work (July 2007 onwards)

Architect and Researcher in '**BFS Innovations**' at **Cognizant Technology Solutions (Pune)** (<http://www.cognizant.com>);
In charge of the group's Text Analytics activities.

Involved in: Innovation consulting, Text Analytics solutions, Ideation & Prototyping, Marketing & Presentations, Project Leadership.

Notable Work

"Mirror Mirror" (2+ years):

- Leading a 5 member team that created a **Sentiment Analyzer** (a tool to analyse opinions from natural language texts) for use in product & service management, competitive intelligence, and Social CRM. It was voted by Cognizant as one of its top 5 '*market facing*' innovations for 2009.
- Wrote NLP algorithms to identify product enhancement suggestions, customer leads, and complaint stories.
- Currently working on applications of the Analyzer to retail banking.

"Redaction" (6 months):

Part of a team that re-designed a business process of erasing confidential data from insurance documents using Text Analytics (in particular **Named Entity Recognition**) and better interfaces. The tool led to 50% savings for the client (a leading financial services firm) over the previous (manual) process, and a 30% increase in productivity.

"Idée Fixe" (since early 2009):

Began a monthly ideation group that comes up with about 3 new ideas per session, some of which have progressed into advanced prototypes.

Other projects: E-mail analysis for discovering problem areas, textual analysis of support calls, unique content identification for a knowledge management system, visualizations for 'actionable intelligence', and detection of narratives.

Management:

A member of the core group of "BFS Innovations"; involved in creating team roadmaps and in customer communications.

Skills:

Techniques: Sentiment Analysis, NER, Language Processors, Classifiers, WordNet, Information Visualisation

Technology: Java, Perl, Scilab, RapidMiner, GATE, Shell scripting

Innovation techniques: Mind Maps, 6 Thinking Hats, Prototyping, Ideation

Previous Work (2001-2005 onwards)

Senior Member of Technical Staff at Persistent Systems Ltd, Pune (<http://www.persistentsys.com>)

Involved in: 4 projects (roles: Software Development, Support & Maintenance, Project Management)

Last Project

Telecom Quality Management for a Global Telecom ISV (1 year): led a team of 3 that created a product which used telecom call data to identify, analyze, and visualize Quality of Service problems.

Skills (over 4 years): C, C++, C#, VB.NET, CGI, Javascript, Shell scripting, SQL Server

Teaching

Volunteer teacher at the College of Engineering, Pune from 2002-04 on Systems Programming, Compilers, and Programming Languages.

Research

Current Interests: (major) Sentiment Analysis, Intention Detection, Mining Social Media, Applications of Text Analytics, Innovation Techniques

(minor) Information Visualization, Design Thinking, Human-Computer Interaction

M.Tech Thesis (1 year): "Towards evaluating lexico-semantic networks such as Wordnets"

Advisor: Prof. Pushpak Bhattacharyya, CSE, IIT Bombay (<http://www.cse.iitb.ac.in/~pb>)

Publications (3)

1. "Automatic Evaluation of Wordnet Synonyms and Hypernyms" (ICON 08), Pune, Dec 2008

2. "Towards Automatic Evaluation of Wordnet Synsets" (GWC08), Hungary, Jan 2008

3. "Structure and Linkages of Multi-lingual Wordnets", Bulletin of the IEEE Technical Committee on Data Engg., Vol. 30(1), Mar 2007

Relevant Courses: Natural Language Processing, Web & Data Mining, Algorithms, Object Oriented Techniques

Achievements

5th in Pune University, Final Year Engg, 2001

2nd in Pune Division, 12th Board Exams, 1997

Winner, BBC's Mastermind India, a televised quiz show, 2002

Published several fiction & non-fiction pieces

Hobbies & Activities

Quizzing and setting quizzes, reading, writing fiction and non-fiction, British TV, films and music, managing the 50-member *Boat Club Quiz Club* (Pune's largest quizzing association), blogging on quizzing, movies, & books.

Strengths

Creative and analytical thinking, cross-pollination of ideas, observation, quick learner and applier of new information, experimentation, reading, verbal and written communication, collaboration

Contact

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