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## Objective

To effectively apply all the skills acquired during my years spent in academics to develop tools and applications that will help the society advance technologically.

## Education

| Degree           | Institute  | Stream  | Year  | Performance   |
|------------------|--|---|-------|---------------|
| B.Tech [Honors]  | International Institute of Information Technology, Hyderabad | Computer Science and Engineering (Hon's: Natural Language Processing) | 2009* | 9.2/10 (CGPA) |
| Senior Secondary | St. John's Sr. Sec. School, Kota                             | CBSE  | 2004  | 84.4%         |
| Secondary        | St. Peter's College, Agra                                    | ICSE  | 2002  | 88.6%         |

## Publication

**Two semantic features make all the difference in Parsing accuracy.** Akshar Bharati, Samar Husain, Sambhav Jain, Bharat Ambati, Dipti M Sharma and Rajeev Sangal. *In Proceedings of the 6th International Conference on Natural Language Processing (ICON-08), CDAC Pune, India. 2008.*

## Work Experience

- **Research Assistant** at *Language Technologies Research Center(LTRC), IIIT-H* [ May '08 -Mar'09 ].
- **Teaching Assistant** for courses *Artificial Intelligence* (Spring '08) and *Natural Language Processing* [ Monsoon '08 ].
- **Summer Interns** at *Language Technologies Research Center(LTRC), IIIT-H* [ April'07-June'07 ] and [ April'08 –July'08 ].

## Areas of Interest

- Artificial Intelligence
- Natural Language Processing
- Machine Learning

## Academic Achievements

- Included in the **Dean's List** for Excellence in Academics for Years 2005-2006 and 2006-2007.
- All India Rank **908** in All India Engineering Entrance Examination(AIEEE) 2005

## Skill Set

|                            |                               |
|----------------------------|-------------------------------|
| Programming Language       | C, C++                        |
| Scripting Language         | Python, Shell scripting, Perl |
| Operating System           | GNU/Linux, Windows XP/Vista   |
| Internet Technologies      | HTML,XHTML,CSS                |
| Server Side Scripting      | CGI, ModPython, PHP           |
| Database Management System | MySQL, MS SQL Server 2005     |
| Specialised Software       | Photoshop CS2, GIMP, MATLAB   |
| Programming Environment    | GNU/GCC, MS Visual Studio     |

## Major Projects

- **Developing Dependency Parser for Indian Languages (BTP)**

Parsing is the backbone for almost all sophisticated NLP application. The aim was to develop a broad coverage Dependency Parser for Indian Languages using Machine Learning Techniques which overcomes the coverage problem of earlier rule based parsers. Internal release of a Parser for Hindi has already been made and its public release is also expected soon. ILMT Project (under **Ministry of Communication and IT**) has requested us for a simple version of the Parser.

**Advisor:** Prof. Rajeev Sangal, Dr. Dipti M. Sharma

**Publication:** 1

**Technology:** MALT Parser, MST Parser, SVM

**Team Size:** 2

- **Intelligent User Interface (Hons. Project)**

This project targets the increasing complexity of GUIs in today's applications. It provides an easy language interface which is intelligent enough to understand users' queries in natural language and performs the desired action. The designed framework was successfully implemented tested for Kspread(KDE Spreadsheet).In future integration with Speech System and Machine Translation Systems is planned.

**Advisor:** Prof. Rajeev Sangal

**Technology:** Stanford Parser,DCOP,KDE,Koffice,C++

**Team Size:** 2

- **Yoga Tutor**

The emphasis was to save server space by reusing the images of postures to form animation for all *asanas* .A web based application was developed to dynamically create flash animation (correspond to an *asana*) on the fly from the stored images on the server.

**Advisor:** Dr. Vikram Pudi

**Team Size:**4

**Technology:** HTML, PHP,Ming, AJAX, CSS, JavaScript, Apache Server, Mysql

## Minor Projects/Course Projects

**Transformed Based Learning for POS Tagging** (Artificial Intelligence), **Implementation of Extendable Hashing** (DBMS), **Simulation of Paging Algorithm** (Operating System), **Cross Lingual Structure Handling** (Natural Language Processing), **Post Editing System for Machine Translation** (Advance NLP), **Solar System Simulation** (Computer Graphics), **Multi Word Expression Extractor and Analyser**(Computational Linguistics).

## Conferences And Workshops

- International Joint Conference on Artificial Intelligence(IJCAI'07)
- International Joint Conference on Natural Language Processing(IJCNLP'08)
- TCS NLP Winter School-2007 and IASNLP-2008 (IIITH Advance School on NLP)

## Extra Curricular Achievements

- **Placement Lead** for B.Tech CSE at Campus Placements 2008-09
- Member of IIIT Student Parliament for the years 2007-08, 2008-09
- Cultural Representative of College House(Aakash)
- Lead of the Designing Team for Felicity'08, annual cultural fest at IIIT-H

## Interests

- Music, Dramatics, Fine Arts(Designing),Table Tennis, Basket Ball, Blogging