

Academic Achievements

- Achieved **99.79** percentile in computer science GATE 2014 out of 15.5k student appeared
- Obtained **scholarship** for BE programme from SSCET(CSVTU) Bhilai Chhattisgarh

Fields of Interest

Algorithms and Data Structure, Computer Networks

Positions of Responsibility

- **Computer Secretary** in Hostel-11 council IIT Bombay *[Apr'15-till-date]*
 - Responsible for handling Wi-Fi and LAN related issue.
- **Teaching Assistantship, IIT Bombay:**
 - **Database Management System** *[with Prof. N.L. Sarda, Jul'14-Nov'14]*
Managed the allocation of student to TA for project evaluation
Evaluated assignments and course project of students.
 - **Computer Programming and Utilization as JTA** *[with Prof. Kavi Arya, Jan'15-Apr'15]*
Evaluated the assignments of students and guided them in their course project.
Attended lab to supervise the student progress and helped them to learn.
 - **Computer Programming and Utilization as STA** *[with Prof. Varsha Apte, Jul'15-till-date]*
Supervision of lab of 100 students, guiding and helping the students.

M.Tech. Seminar

- **Distributed Networking and online Algorithms** *[Jan'15-Apr'15]*
(Guide : Prof. Nutan Limaye)
 - Studied communication and in-network computation in wired network using different approaches.
 - Analysed various issues and challenges related to in-network computation
 - Studied the challenges in communication in wireless network and analysed the communication complexity.
 - Analysed different approach to find the efficient one for communication in wireless network.

M.Tech. Project

- **Analysis and Design of Map-reduce algorithm for streaming data** *[May'15-till date]*
(Guide : Prof. Nutan Limaye)
 - Objective is to design an efficient map-reduce algorithm for streaming data using the concept of traditional non-streaming map-reduce algorithm in hadoop.
 - Initial work includes the implementation of existing algorithm in hadoop for efficient analysis of data.
 - Multi-cluster hadoop setup for data-node and name-node is used for this purpose.
 - Design and analysis of possible hybrid approach of traditional and streaming map-reduce algorithms.

Course Projects

- **Automation of NS3 simulation for different configuration**

[Software Lab]

(Guided : Prof. Bhaskaran Raman, Jul'14-Nov'14)

- Objective is to automate ns-3 network simulator using script and configuration file.
- Tshark is used to analyze the packet traces for various metrics, plot relevant graphs and analyse it.
- The Lex and Yacc files are used to parse the configuration file and set the appropriate parameters to the simulator file. These parameters are set to different values for different run by lex-yacc program.
- It then generates a summarised dataset and pyplot uses this dataset to make graphs.

- **Recognizing well balanced parenthesized expression in streaming data**

[Applied Algorithm]

(Guide : Prof. Nutan Limaye, Feb'15-Apr'15)

- Understand the key concepts in the streaming data and the challenges faced for analysing the data.
- Read and understood the correctness probability of the algorithm and presented in class.

Technical Skills

- **Languages** : C, C++, Bash Unix Shell Scripting, Python
- **Web Technologies** : HTML, PHP
- **Operating Systems** : Linux, Windows
- **Tools** : Git, Pyplot, Gnuplot, L^AT_EX
- **Database** : MySQL

Other Projects

- **Online HR Recruitment**

[Jul'12-Mar'13]

- Objective was to develop a website for making recruitment process online
- It is a php based project and database used is sql-server.
- Performs shortlisting according to the details filled by the applicants.

M.Tech. Courses

Algorithms and Complexity, Applied Algorithms, Computer Networks, Mobile Computing, Linear Optimization, Advance Compiler, Concepts Algorithms and tools for model checking,

Extra-Curricular Activities

- Participated in the **PG Culture** Phase-I and Phase-II event at **IIT BOMBAY** [2014-2015]
- Participated in **PG Sports** Tug of war at **IIT BOMBAY** [2014-2015]
- Participated in **Regional level KHO-KHO** held at JNV Cuttak(Orissa) [2007-08]
- Participated in school level **NSS camp** in Barsoor Dist-Dantewada(C.G.) [2008-09]

Hobbies

- Drawing, Playing Badminton, Listening music, watching movies