Major Projects and Seminar

- **Power Management in Virtualized platform**
  (M.Tech Project, under the guidance of Prof. Varsha Apte) *[May 2015 - Ongoing]*
  - *Objective:* Measurment and Analysis of power consumption of server in virtual platform, strategies to reduce power consumption.
  - *Approach:*
    - Development of tool to track and to analyse power cosumption.
    - comparision of power reductioon strategies on the basis of feasibility and on the basis how much they affects performance of the system.
  - *Future work:* Devlopment of Power Management tool for Virtualized system to manage power efficiently
- **Virtualization and Power Management in Virtalized Platform**
  (M.Tech Seminar, under the guidance of Prof. Varsha Apte) *[Jan 2015 - April 2015]*
  - Surveyed various virtualization technologiies and studied comparison among them.
  - Discussed the challenges presented in these Virtual platforms.
  - Surveyed Power Management techniques on virtualizzed platform.

Course Projects

- **Simulation Modeling of a Web server** *[CS681 Performance Evaluation of Computer Systems and Networks]*
  (Guided by Prof. Varsha Apte, Spring 2014)
  - To simulate the real world web server using our prototype simulation module for closed queuing network.
  - Analysed the behaviour of system and generated various graphs with the varying inputs.
- **Extract information of RSS and WSS of a Process in linux kernel by desgining a loadable kernel module**
  [CS614 Advance Compiler]
  (Guided by Prof. Purushottam Kulkarni 2015)
  - Implemented a logic to find out the size of rss and wss by using Paging herarchy and page entry clear bit and set bit.

B.Tech Project

- **A protocol to manage replication in replicated distributed datanase** *[Final Year Project]*
  - Modified a protocol to make write and read operation more efficient in terms of cost without affecting fault tolerance of system.

M.Tech. Courses

- Algorithms and Complexity
- Kernel Programming
- Advanced Computer-Network
- Artificial Intelligence
- Development of Mathematics in India
- Mobile Computing
- Performance Analysis of Computer Systems and Network

Technical Skills

- **Programming Languages**: C, C++, Java, python, prolog
- **Scripting Languages**: Bash, awk, Javascript
- **Tools**: Vim, Eclipse, Latex, Beamer, Gnuplot, Pyplot LaTeX
- **Operating Systems**: Ubuntu,Debian Linux, Windows xp, 7
- **Databases**: PostgreSQL

Fields of Interest

Computer Networks, Algorithms, Operating Systems

Positions of Responsibility

- **Teaching Assistantship, IIT Bombay**:
  - CS 305 Computer Architecture core subject of BTech 3rd Year *(with Prof. Bhaskaran Raman)*
    - Conducted lab sessions,prepared Tutorials and solution,evaluated Quizs and midterms
  - CS 341 Computer Architecture Lab *(with Prof. Bhaskaran Raman)*
    - Conducted lab sessions
  - CS 101 CS 101-2015-1 Computer Programming and Utilization Lab *(with Kavi Arya)*
    - Conducted Lab sessions guided 14 students, evaluated quizs,midterm and Endsem.
  - Supervised three project teams, Pyramix solver,Air hockey,Carrom Board.

Hobbies

- Playing Chess, Sketching, Drawing, Reading, solving chess puzzles and rubix cube, movies and playing Computer games