

Scholastic Achievements

- Secured All India Rank – **941** in **IIT- JEE** Examination [2009]
- Adjudged the **Best Student** by the school [2007]
- Selected for the **Second level** in **National Talent Search Examination** [2007]
- Ranked **5th** in **Mumbai District** in **Maharashtra Talent Search Examination** [2005]

Internships / Projects

Core Athena Systems, Mumbai

[Summer 2011]

Under the guidance of Dr. Girija Narlikar and Dr. Minothi Parulekar

- Implemented and optimized a **Pairs-Trading model** in Java and R; based on **Statistical Arbitrage** for **Algorithmic Trading** in Indian Equities and Futures market.
- Studied a related paper on “Statistical Arbitrage in the US Equities Market” published from **Courant Institute of Mathematical Sciences (NYU)**. Wrote code for cleaning and processing High Frequency Data obtained from the Exchange.
- Assisted in coding of **Multi-Factor model** based on **Quantitative Equity Portfolio Management** for explaining and forecasting stock returns.

Rent50Cent, Mumbai

[Spring 2011]

- Worked as a **Web Developer** at **Rent50cent**, a start-up which offers Real Estate solutions to the customers.

The Rendezvous Problem

[Autumn 2010]

Under the guidance of Prof. Om Damani

- Simulated the famous “**Rendezvous Problem**” in C++ with GUI using Graph Theory that minimizes the time of meeting of two persons in a maze using **Dijkstra’s Algorithm**.
- The algorithm improvised the goal by assigning the probabilities to each vertex and edge of the maze and choosing the best available path at every instant.

Generalized Kakuro Application

[Spring 2010]

Under the guidance of Prof. Amitabha Sanyal

- Developed the **AI** and **Graphical User Interface (GUI)** for the famously played puzzle “**Kakuro**”.
- The application involved use of **abstractions** which could be extended over to other problems. This project was developed in programming language Scheme.

Mini UID Project

[Autumn 2009]

Under the guidance of Prof. Deepak Phatak

- Was a part of the team that was responsible for the consolidation work of the **MINI-UID Project**. A software was developed which detected the unique individuality of persons by scanning their fingerprints.
- The project was implemented in C++. This project was inspired from the **Aadhaar** project launched by the Govt. of India.

Miscellaneous

- Developed a **Parser** in Scheme which parses expressions involving arithmetic operations.
- Made a **Symbolic Differentiation Package** which can differentiate polynomials, logarithmic, exponential, trigonometric and any composition of above functions.

Technical Skills

- **Programming** : C, C++, R, Java, Python, Perl, Bash, VHDL, LaTeX, Prolog, Scheme, MIPS.
- **Web** : HTML, CSS, PHP, MySQL, Javascript.

Key Courses to be completed by Spring 2012

- **Pursuing Minor in Statistics**

Core : Design and Analysis of Algorithms, Operating Systems, Database Systems, Computer Architecture, Compilers, Networks, Artificial Intelligence, Data Structures, Discrete Structures, Automata Theory and Logic, Logic Design, Software Systems, Abstractions and Paradigms in Programming.

Maths and Statistics : Data Interpretation and Analysis, Probability Theory, Differential Equations, Linear Algebra, Calculus, Numerical Analysis, Statistical Inference, Applied Stochastic Processes, Managerial Economics, Economics.

Positions of Responsibility

- **Coordinator** in **Corporate Relations** at **Entrepreneurship Summit 2011**, largest business summit by any academic institute in India. Responsible for interaction with the **Corporates** at **Vulture's Nest**, a venture investment competition.
- **Coordinator** in **Coding Arena** at **Techfest 2011**. Successfully co-ordinated the online crypt hunt Segreta with assistance from colleagues and juniors.
- **Organizer** at **Techfest 2010(Publicity)** and **Mood-Indigo 2009(Pronites and Informals)**.

Extra-Curricular Activities

- Ranked **10th** in the **Virtual Stock Market** Competition 2010 organized by the **Entrepreneurship Cell** of IIT Bombay which had more than 1000 participating students.
- Participated in **Department Coding Contests**.
- Have an avid interest in **Stock Market, Investment and Finance**.
- Enthusiast in Lawn Tennis, Table-Tennis, Chess, Football.