Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	8.76
Intermediate/+2	CBSE	Patna Muslim High School	2010	90.60
Matriculation	ICSE	St. Karen's High School	2008	96.20

SCHOLASTIC ACHIEVEMENTS AND SCHOLARSHIPS

- Awarded **Certificate of Merit** for being placed in **National Top 1%** in National Standard Examination in **Physics (NSEP) 2009-10**
- Awarded **Certificate of Merit** for being placed in **National Top 1%** in National Standard Examination in **Chemistry (NSEC) 2009-10**
- Secured **All India Rank 498** in **IIT Joint Entrance Exam**-2010 amongst 470,000 students
- Secured **All India Rank 1070** and **State Rank 15(BIHAR)** in **AIEEE**-2010 amongst 1 million students
- Awarded **MCM (Merit cum Means) scholarship** for the entire 4 year duration from IIT Bombay
- Awarded **full tuition fee waiver** during the year 2001-02 and 2004-05 , for securing the first position in the entire school in the class 5th and class 8th respectively
- Awarded a **scholarship** from Patna Muslim High School, for securing the **first position** throughout the entire school **in class 12th**
- Felicitated by **SIS (security and Intelligence Services) and awarded Hindustan Pratibha Samman**, by Hindustan Media Pvt. Ltd. for good performance in class 10th

KEY PROJECTS AND INTERNSHIPS UNDERTAKEN

Summer Intern at Claritics   [May-July 2012]

Claritics is a US based analytics platform which analyses granular data from high-volume applications from social mobile and web platforms in real time. Most of the task as an intern was to add new features to the existing Claritics Data Analytics Application, which included the following

- Developed **API's in ruby on rails** for Claritics Data Analytics Application, used in **automatic creation of user accounts** and automatic registration of user applications
- Developed a **ruby on rails application for showing graphs using High Charts**, for top user applications of the month in terms of maximum data sent by the application
- **Extended the existing user management system** in Claritics Data Analytics Application, by making the relationship of user to company from one-one to many-one
- Developed the **UI for showing notifications related to user applications** depending on sudden changes in trends of real time data
- Added the option to **save/edit/delete filter and output definitions used for generating reports** on current data

Traffic Simulation   [Sept-Nov 2011]

Guide: Prof. Varsha Apte
Course Project

- Designed a graphical simulation of the **traffic at a crossing**, with features such as **overtaking, different lanes, different types of vehicles, velocity, acceleration and deceleration cap, different light timings** based on traffic density**,** and the **performance metrics**
- Implemented the **car following model algorithm**, which is based on the fact that the relative separation of the cars asymptotically reach zero
- Developed using **FLTK GUI libraries** available for GNU C++

INTEL 8085 Simulator   [Aug-Nov 2010]

Guide: Prof. D. B. Phatak
Course Project

- **Team leader** of a subgroup in a team of 13 members

- Using **Object Oriented Programming** in C++, developed a simulator, parser, debugger which could show each execution step, hexadecimal conversion of the code and the changes in the registers of the microprocessor
- Developed using **QT4 GUI libraries** of GNU C++

Pro Zip (File Compressor) [Feb-April 2011]

Guide: Prof. Amitabha Sanyal
Course Project

- Designed an application in **PLT Scheme**, which could **compress/decompress different types of file,** and found to be **more efficient than GZIP for small files**
- Implemented file compressing algorithms such as **LZW, Huffmann , Shanon Fano**
- Analysed the **efficiency of each algorithm** by comparing their compression ratio

RELEVANT COURSES

Computer Science:
- Abstractions and Programming Paradigms
- Discrete Structures
- Data Structures and Algorithms
- Logic Design
- Design and Analysis of Algorithm
- Automata Theory and Logic
- Computer Networks
- Computer Architecture
- Database and Information Systems
- Introduction to Graph Theory

Other Important Courses:
- Calculus
- Linear Algebra
- Differential Equations
- Data Interpretation and Analysis

COMPUTER SKILLS

- Programming languages: C/C++, Java, PLT-Scheme/Racket, SWI Prolog, QT4, Latex, MySql, Bash
- Web Languages: HTML, CSS, PHP, Javascript, JQuery, Ajax, Ruby
- Softwares/IDE's: MS Office, Qt Creator, Eclipse, Netbeans
- Operating Systems: Windows, GNU/Linux

POSITIONS OF RESPONSIBILITY

Mess Secretary, Hostel-8 [Aug 11 – till date]
- Responsible for **smooth and efficient running of the mess** for Hostel 8
- Kept a note of the weight of the wasted food, to reduce the wastage of food
- Kept a check on the hygiene in the mess and maintenance of kitchen equipments

Organizer, Infrastructure – Techfest '11 [Dec 10 - Jan 11]
- Responsible for **proper management and allotment of infrastructure** for the events in Techfest

EXTRA CURRICULAR ACTIVITIES

Sports:
- runner up in **Hostel Carrom Competitions**
- Completed a one year training course in **Aerobics**, organized by National Sports Organisation
- Participated in inter hostel **Weight Lifting** General Championships

Cultural:
- Part of the team winning **Inter Wing Movie Spoof Competition** in Hostel 3 IIT Bombay
- Part of the team winning 5th prize in **Inter Wing Situational Acting Competition** in Hostel 3 IIT Bombay

Technical:
- **Participated in HackU** by developing an over-night project **DCBot** made for open source software DC++**,** which suggest movies and show IMDB ratings for movies
- Successfully built a **remote controlled** all terrain **car** in Trackmania (remote controlled car making competition for freshmen), organized in IIT Bombay
- Cleared the first level and made a boat, in **Junkyard Wars**, organized by Techfest, IIT Bombay
- Participated in **Lego Robotics** workshop, based on **elementary robotics**