ACADEMIC ACHIEVEMENTS

- Secured **rank 518 in IIT Joint Entrance Examination**
- Was in top 1% in the state of Maharashtra for the Regional Mathematics Olympiad, 2010, qualifying for the next level
- Was in the top 1% in the state of Maharashtra for the National Standard Examination in Physics, 2011, qualifying for the next level

RELEVANT COURSES COVERED

- **Physics:** Modern Physics, Electromagnetism, Classical Mechanics, Optics, Nonlinear dynamics
- **Mathematics:** Calculus, Linear Algebra, Ordinary differential equations, Complex Analysis, Partial differential equations
- **Statistics:** Data Analysis and Interpretation
- **Programming:** Computer Programming and Utilization

EXPERIENCE

Learning project   Summer 2012
under Professor Alok Shukla   *IIT Bombay*

- Studied band theory, especially the tight binding model.
- Analyzed various lattices with focus on graphene-like structures using Abinit
- Project is being continued in semester with an aim of analyzing compounds with interesting optical properties

ASME SDC 2013   Oct 2012 - Mar 2013
Innovation Cell   *IIT Bombay*

- Worked on the institute team for ASME's Student Design Competition, 2013
- Participated in design, modelling, electronics, and fabrication of the robot.
- Our team won first place at the regional as well as Asia-Pacific level.

Sec.SE CTF team   Apr 2012-Present

- Member of the IT Security Stack Exchange CTF team
- Have participated in DEFCON CTF Quals 2013, SIGINT CTF 2013 and UFO CTF 2013, with focus on web security

Programming projects

- Regularly write userscripts for Wikipedia and Stack Exchange
- Contribute to the Mozilla community, mainly with Firefox development
- Wrote a Typed Math to LaTeX converter
- Wrote a LOGO-like 3D drawing engine in C++

TECHNICAL STRENGTHS

Computer Languages	Python, JavaScript, C++, Java, Bash, LaTeX, PHP, some Fortran and C.
Tools	Mathematica, Abinit, Matlab, GnuPlot, SolidWorks, Git, Eagle, Audacity

EXTRACURRICULARS

· Moderator and active participant on the Physics Stack Exchange

· Fond of music, amateur flute player

· Technical mentor in institute

· Participated in XLR8 (freshman robotics competition) in 2012

· Participated in the Line Follower competition in 2012

· Participated in the Innovation cell qualifications, had the fastest robot in the event.

· Attended the Android programming bootcamp held in December 2012 in IIT Bombay

POSITIONS OF RESPONSIBILITY

Convener   Apr 2013-Present
Web and Coding club   *IIT Bombay*

· Managing and participating in various programming activities in the institute
· System administrator for club website

Organizer   Dec 2012
Mood Indigo   *IIT Bombay*

· Helped design interactive events under the Informals department
· Actively participated in the execution of these events

Organizer   Jan 2013
Techfest   *IIT Bombay*

· Managed logistics for an ethical hacking event
· Organized various guest lectures throughout the festival