

EDUCATIONAL QUALIFICATIONS:

Year	Degree	Institution (Board)	CGPA / %
2010-2014(expected)	B.Tech, Electrical Engineering	Indian Institute of Technology, Kanpur	7.5/10.0
2010	XII	Rajendra Vidyalaya, Jamshedpur (ISC)	94.5%
2008	X	Rajendra Vidyalaya, Jamshedpur (ICSE)	98.0%

Scholastic Achievements:

- Stood as **State Topper** in ICSE 2008 securing an overall 98%
- Secured **All India Rank-265** in IIT-JEE 2010 and **AIR-642** in AIEEE 2010
- Secured **AIR-74** in **11th National Science Olympiad (NSO)**
- Secured **AIR-149** in **National Science Talent Search Examination (NSTSE) 2009** and **AIR-84** in **NSTSE 2010**
- Awarded **Meritorious Student Award** from National Metallurgical Laboratory (CSIR-NML), Jamshedpur for scoring 98% in ICSE 2008 and 100% marks in Environment Education
- Awarded **Academic Excellence Award** by Adityapur Vikash Samiti, Akhil Bhartiya Vidyarthi Parishad of Jamshedpur and Prabhat Khabar (a daily newspaper) for excellent academic performance in ICSE 2008
- Awarded **Gold medal & Abhay Bhartiya Pratibha Puraskar** from **Babu Abhay Seva Sansthan** for securing highest marks in Computer Science in ISC 2010
- Awarded **Meritorious Student Award** by CSIR-NML, Jamshedpur for securing above 90% in Science subjects in ISC 2010
- Awarded **Academic Excellence Award** by Hindustan (a daily newspaper) for excellent academic performance in ISC 2010

Workshops Attended:

- Participated in workshops on **Ethical Hacking** organized by **CyberCure Solutions, Kyrion Digital Securities** and **TechDefence**
- Attended **CSIR Programme on Youth for Leadership in Science (CPYLS 2008)** held at National Metallurgical Laboratory, a **2-day workshop** for the top 50 students of the state organized by **CSIR**. A series of lectures were given by the eminent and distinguished scientists & the use and function of important equipments were demonstrated to the students

Projects:

- CS315 (Database Management) Course Project on **Student Gymkhana Calendar** (March 2013)
 - Developed an application to efficiently manage and schedule the numerous events organized by the Students' Gymkhana.
 - The application has various levels of hierarchy with various permissions to a user in a specific hierarchy like adding events, approving or rejecting events, adding other users
 - Designed an efficient database for the application in normal form optimizing it such that queries and data retrieval take minimum amount of time
- EE370 Course Project on **AES encryption** (and decryption) in **Verilog** (October 2012)
 - Wrote a VERILOG program to execute the encryption and decryption of AES encryption or Rijndael cipher
- EE330 Course Project on Power Flow using Gauss-Siedel method (November 2012)
 - Simulated the load flow problem in PowerWorld Software
 - Developed a MATLAB code to compute the power flow solution
- SmallTalk, an application developed in **Yahoo! HackU 2012** organized by **Yahoo India** (23 August - 26 August 2012)
 - Developed an app in 24 hours which gives complete info about a user's Facebook friends
 - The app used Yahoo BOSS api to get the latest news about the user's and his friends' most liked items in the Facebook graph
 - Used IMDB movie list to determine the genre of the movie liked by a particular friend and suggest similar movies of the same genre not watched by the user
 - The app displayed the favorite sport of a particular friend by analyzing his sports' likes in the Facebook graph and also generated the sport description from Wikipedia and latest news about that sport using Yahoo BOSS api
- Online **3D Rubik's Cube application** in **Yahoo! HackU 2011** organized by **Yahoo India** (19 August - 22 August 2012)
 - Developed an online 3D Rubik's Cube application in 24 hours
 - The app consisted of an online Rubik's Cube which could be viewed in 3D and solved as a normal cube
 - It also consisted of an inbuilt timer and an integrated chat system where all the logged in users could discuss among themselves and their solve times

- **Student Search** of IITK Students along with a **SMS application** for the same (June 2011)
 - Created a search interface and application to search students of IIT Kanpur based on their roll, email, hall, blood group and various other parameters, rather than roll number and email only search provided by iitk
 - Wrote a script to download all the student data from the iitk office automation servers
 - The app gets around **500 visits per day** and a total of around **6 lakhs page views till date**, in two years
 - Developed a **SMS application** for the same where a user could send a roll number or email id of a student to a number and receive all the details of the student within seconds
- **Online Multiplayer Game** as Summer Project under **Programming Club, IIT Kanpur** (May 2011 – June 2011)
 - Built a multiplayer car racing game from scratch in C
 - Applied the concept of Socket Programming to build the networking part of the game
 - Used OpenGL to design the game and make a 3D map for the game
- Constructed a working model of a crane in Manufacturing (ME) Lab in third semester (July 2012 – November 2012)
 - Designed a crane using worm gears to lift objects
 - Involved the use of lathe, milling, drilling, casting and welding for gear manufacture and assembly
- Designed a model of Vintage Airplane in Manufacturing (MSE) Lab in third semester (July 2012 – November 2012)

Summer Internship(s)/Experience:

(* indicates ongoing projects)

- (*)Summer 2013 Internship at **Samsung India Software Operations**, Bangalore (May 2013 – June 2013)
- Internship as **Software Developer** at **Educational Initiatives**, Ahmedabad (May 2012 – June 2012)
 - Developed educational games in **html5** compatible with all browsers, I-pads & androids
 - Created various JavaScript libraries some of which are widely used by them in many of their games
 - Received appreciation from the IT & the content management team for my work
 - Awarded offer for another internship and a **Pre Placement Offer** by the company
- Part of campus **startup bluegape** as web developer cum designer
 - Designed and developed a customization tool used for customizing t-shirts, posters & mugs online which increased the traffic on the site and the revenues
 - Assisted the technical team of the startup in their early stages in various technical aspects
 - Assisted the team in product development and new product ideas

Technical Skills:

- **Programming Languages:** C, C++, Java, HTML5, JavaScript, Ajax, CSS3, PHP, JSP, Python, Ruby, Web Development Frameworks including MVC's like Ruby on Rails and CodeIgniter and CMS's like Joomla and SilverStripe, Shell Scripting, Batch File Programming
- **Database Systems:** MySQL, PostgreSQL, SQLite
- **Platforms:** Windows, Linux (Ubuntu, Fedora, Mint, Debian, Gentoo in all Desktop Modes)
- **Software & Utilities:** MATLAB, GNU Octave, git, Microcap, Verilog, VHDL

Relevant Courses Undertaken:

ESC101 - Fundamentals of Computing	EE320 - Principles of Communication
TA101 - Engineering Graphics	EE330 - Power Systems
ESO211 - Data Structures and Algorithms	EE370 - Digital Electronics & Microprocessor Technology
EE200 - Signals, Systems and Networks	EE698B - Intelligent Systems And Control
TA201 - Introduction to Manufacturing Processes	CS315 - Principles of Database Systems
ESO209 - Probability and Statistics	EE301 - Digital Signal Processing
EE210 - Microelectronics	EE321 - Communication Systems
EE250 - Control Systems Analysis	EE340 - Electromagnetic Theory

Positions of Responsibility:

- **Core Team Member (Head Web) in Techkriti 2013**
 - Led a 3-tier team comprising of executives and developed the website & various apps/scripts for the festival
 - Coordinated and planned the **Guinness Book of World Records Attempt**, while leading a team comprising of around 100 volunteers, which was successfully achieved by solving the maximum number of Rubik's Cube (1884 solved cubes). Organized workshops for the same in various colleges in Kanpur
 - Managed various events and activities and played an important role in taking decisions regarding the festival
 - Revamped the registration process and accommodation allocation process, automating the entire system and minimizing paperwork
 - Appointed as a core team member from the third year for the first time in Techkriti

- **Coordinator of SocCon** (The Social Conquest), a **flagship event** in **Techkriti 2012**
 - Started the event for the first time to find technical solutions to real time problems of Indian masses
 - Successfully organized the flagship event (on a national scale) and got appreciated by the judge
 - Coordinated a team of assistant coordinators and secretaries for the successful completion of the event
- **Academic Mentor** for first year students under the **Counselling Service**, IIT Kanpur
 - Mentored around 50 students in the course “Fundamentals of Computing” and helped them adjust in the new academic environment of the college
- **Core Team Member** of **Entrepreneurship Cell**, IIT Kanpur as **Head Web**
- **Secretary** and **Webmaster** of **MUN (Model United Nations)** in **Antaragni 2011**
- **Assistant Coordinator** in **IORC 2011**(Indian Open Rubik’s Cube 2011) in Techkriti 2011
- **Secretary** of Rubik’s Cube Workshop in Techkriti 2011

Extra-Curricular Activities and Achievements:

- Won **first prize** in **Whiz-it, Techkriti’12**, a 24 hour application development contest for developing a Student Portal with many features
- Developed various apps/software/libraries like **Student Search** of IITK students, which displays all the information about any student (a very popular app in campus), a Course Search which displays information about any course and is a handy app during course registration, AnimateJS, a JavaScript library, a script for removing ads from Facebook, a script for transferring SMS from Nokia to Android, A loveapp which won in a valentine’s loveapp contest, an image editor etc. some of which are widely used
- Attended **CSIR Programme on Youth for Leadership in Science (CPYLS 2008)** held at National Metallurgical Laboratory, a **2-day workshop** for the top 50 students of the state organized by **CSIR**. A series of lectures were given by the eminent and distinguished scientists & the use and function of important equipments were demonstrated to the students
- Participated in IORC (Indian Open Rubik’s Cube), Techkriti successfully with a national rank of 172 (single) & 170 (average) in 3x3 Rubik’s Cube event, a national rank of 135 (single) & 98 (average) in 2x2 Rubik’s Cube event and a national rank of 73(single) & 53 (average) in 3x3 one-handed cubing event
- Active member of Programming Club, IIT Kanpur, Rubik’s Cube Hobby Group, IIT Kanpur and Navya, a group of FOSS people in IIT Kanpur
- Participated in workshops on **Ethical Hacking** organized by **CyberCure Solutions**, **Kyrion Digital Securities** and **TechDefence**
- Stood **3rd** in **State Yoga Championship** and **2nd** in **Yoga Quiz** in the **Jharkhand State Yoga Festival**
- Play Badminton, Table-Tennis, Football and Basketball. Had badminton as CPA & participated and won several inter-hall competitions in badminton and table-tennis

Other Passions:

- **Ethical Hacking, Developing open source software/apps/scripts** (created various scripts & apps like a userscript for removing Facebook ads), contributing to other open source projects
- Answering questions on **Stackoverflow** (an active user with high reputation)
- Investing in **Virtual Stock Markets**
- Solving **Rubik’s Cube**
- **Trekking**, went on a training session organized by Bachendri Pal while in school & also went to Pindari Glacier trek with friends while in college
- A sports enthusiast and love playing **badminton & table-tennis** had badminton as CPA, captained the table-tennis team of my hall in Varchasva (Inter Hall Sports Festival of IIT Kanpur) & participated and won several inter-hall competitions in badminton and table-tennis