

ACADEMIC RECORD

Year	Degree	Performance
2015(expected)	B.S. Maths and Sc. Computing	CPI : 6.6/10
2011	Intermediate ISC(class XII)	94.25%
2009	High School ICSE(Class X)	96.2%

RELEVANT COURSES

- Mathematics for Machine Learning
- Probability and Statistics
- Computer Vision
- Computational Geometry ²
- Artificial Intelligence
- Discrete Optimization ¹
- Data Structure & Algorithms
- Time Series Analysis ²

¹ Online Course offered by coursera.org and edx.org
² To be completed by Nov '14

KEY PROJECTS

- Blind Navigation App** **IIT-Kanpur** **Feb '14 - now**
- Project under Prof. Vinay Namboodari, Dept. of Computer Science & Engineering, IIT Kanpur
 - Android App for the blind people for Indoor-building Navigation. SLAM for Android mobile is used.
- Connectomics** **IIT-Kanpur** **Feb '14 - now**
- Project done under Prof. Amitabh Mukherjee, Dept. of Computer Science & Engineering, IIT Kanpur
 - Based on a competition on kaggle.com in which the brain structure and some of its disease alterations were explored.
- Coordinator, App development** **Svagatagami Assosiation** **June '13 - till date**
- Android Apps were developed for children with problems like mental retardation, autism, hyperactivity & Attention Deficit Disorder
 - Apps won **1st prize** in **SoCha** competition of E-Summit, IIT Kanpur
- Dropout method for Neural Networks** **IIT-Kanpur** **May '13 - July '13**
- Project done under Prof. Arnab Bhattacharya, Dept. of Computer Science & Engineering and Prof. Sharmishtha Mitra, Dept. of Mathematics & Statistics, IIT Kanpur
 - Dropout method of randomly omitting hidden nodes to improve efficiency was examined
- Research Crawler** **Winter Internship** **Dec '13**
- Project involved web-crawling and Natural Language Processing
 - scikit, numpy, nltk modules of python were used
 - Research papers were collected through crawling of Bing and Spider-crawl and then they were clustered to discover patterns
- EGM-2008** **IIT-Kanpur** **May '12 - June '12**
- Project was done under Prof. Akash Anand, Department of Mathematics & Statistics, IIT Kanpur
 - EGM-2008 model of Earth's Gravitation Field was modelled in Matlab and implemented in spherical & cartesian co-ordinates
- Cloud Pad** **Electronics Club, IIT-Kanpur** **May '12 - June '12**
- Implemented real-time gaming using UDP protocol via Socket Programming
- Connexion** **Yahoo HackU** **Sept '13**
- Implemented a Web-scraping based model in python in which given any two movie-personalities, it shows the connections between them in form of common movies, significant years or any other relation.
- Carrom Game** **Programming Club, IIT-Kanpur** **Dec '11**
- AI based implementation of Carrom game in Python using pygame module

TECHNICAL SKILLS

Programming Languages : C, C++, Java, Python, MPI(in C)
Tools : MATLAB[®], R-language, GNU Octave, L^AT_EX, HTML, CSS, Javascript, JQuery, AutoCAD[®], Autodesk 3ds Max[®], Code Vision AVR, AVR Studio[®], Android App Development, Asp.net

SCHOLASTIC ACHIEVEMENTS

- Qualified **RMO** (Regional Mathematics Olympiad) in 2010(Class XI) and 2011(Class XII) with State Rank 13th and 5th respectively.
- Recipient of **KVPY** (Kishore Vaigyanik Protshahan Yojana) by Department of Science and Technology, India
- Won **First** Prize in FossDev in **Takneek 12** (Intra IIT-K technical fest) for designing a Brick Game in Python
- Won **First** Prize in **Ad-making** Competition in Sept 12 organised by Animation Club, IIT Kanpur
- Got **A*** in *Data Structure & Algorithms* course for being among top 1% of the class

EXTRA-CURRICULAR ACTIVITIES

- Working as **Head**, Web-development team of **POWER**, IIT Kanpur
- Worked as a **Secretary** of **Animation Club**, IIT Kanpur
- Currently **Green-1 belt** holder in **Taekwondo**
- **Coordinator** of Carrom in **Udghosh 12**, an Inter-Collegiate sports fest of IIT-Kanpur
- **Academic Mentor** in Counselling Service, IIT Kanpur for the year 2012-13
- Was involved in debating at school-level
- Knows **Salsa**, a dance form