

## EDUCATION

Institute	Board/Branch	Result	Time
Indian Institute of Technology, Kanpur	B.Tech, Computer Science and Engineering	CPI 9.8/10	July 2016 - Present
Sir Padampat Singhania Education Centre, Kanpur	Class XII (CBSE)	95.0%	2014-2016

## SCHOLASTIC ACHIEVEMENTS

- Academic Excellence Award for Academic Year 2016-17, IIT Kanpur
- Secured All India Rank 120 in JEE(Advanced)-2016.
- Secured All India Rank 1123 in JEE(Main)-2016.
- Secured All India Rank 277 in KVPY 2015 conducted by Indian Institute of Science, Bangalore.

## PROJECTS

### Project on Game Theory and Computational Social Choice

*Mentor : Prof. Swaprava Nath*

- Learnt topics like Lemke-Howson algorithm, von Neumann theorem, Extensive form games etc.
- Implemented the Support Enumeration Method to find Mixed Strategy Nash Equilibrium in a two player game.
- Analysed several research papers on peer-grading in MOOCs.

### Backend Developer at New York Office, IITK

*Mentor : Prof. Manindra Agrawal*

- Worked on a scalable application in a collaborative development environment.
- Implemented the Redis functionality from scratch.
- Tools/Technologies used: Scala with Akka, Redis.

### Semester Project on Cyber Security

- *Association of Computing Activities, IIT Kanpur*
- Learnt Networking concepts such as Layering in Networks and Networking Protocols.
- Implemented a Content Management System in PHP and MySQL.
- Learnt about various Cryptographic methods like RSA Algorithm.
- Familiarised with different kinds of Network Vulnerabilities.
- Implemented some of the basic attacks like SQL Injection in Damn Vulnerable Web App(DVWA).

### Microsoft Code.Fun.Do Hackathon 2016

- Developed an online legal-advising platform in PHP.
- Got third position in the online round.

## Image Analyser

- *Programming Club, IIT Kanpur*
- Developed a program to detect and recognize text from an Image.
- Involved detection of text from the image, character segmentation and then recognition of characters using CNNs.
- Techniques/Technologies used: Maximally Stable Extremal Regions(MSER), Convolutional Neural Nets(CNNs), OpenCV.

## TECHNICAL STRENGTHS

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**Computer Languages:** C, C++, Python, Bash, Awk, Scala, PHP.

**Database Tools:** MySQL, Redis.

**Utilities:** Git, LATEX.

**Platforms:** Ubuntu, Windows.

## RELEVANT COURSEWORK

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**Computers:** ESC101(Introduction to Computing), CS201(Discrete Mathematics) , CS203(Abstract Algebra) , CS202(Logic in CS), CS220(Computer Organization)\*, ESO207(Data Structures and Algorithms)\*, CS251(Computing Laboratory-I)\*.

**Mathematics:** Linear Algebra, Calculus, MSO201(Probability and Statistics)\*.

**Biology:** LIF101(Introduction to Biology).

**Electrical:** ESO203(Introduction to Electrical Engineering) , ESC201(Introduction to Electronics) .

**Physics:** Physics I (Mechanics), Physics II (Electrodynamics).

**Manufacturing:** TA201(Manufacturing Processes)

*\*Currently ongoing course*

## MISCELLANEOUS

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- **Academic Mentor** for first year B.Tech/BS students at IIT Kanpur.
- Best Sectional Project award for TA201 course in 3rd Semester.