

ANUJ NAGPAL

3rd year Undergraduate

Department of Computer Science and Engineering

Indian Institute of Technology, Kanpur

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EDUCATIONAL QUALIFICATIONS:

Year	Degree	Institute	CPI / %
2018 (expected)	Bachelor of Technology, Computer Science and Engineering	Indian Institute of Technology Kanpur	9.4/10
2014	AISSE (Class XII - CBSE)	B. M. M. Sen. Sec. School ,Mandi Killianwali	96.2%
2012	AISSE (Class X - CBSE)	B. M. M. Sen. Sec. School, Mandi Killianwali	10/10

ACADEMIC ACHIEVEMENTS:

- Received **Academic Excellence Award** from IIT Kanpur for the Academic Session 2014-15.
- Secured an **All India Rank of 190** in JEE Advanced 2014 given by about 150,000 students.
- Secured an **All India Rank of 220** and **State Rank of 4 in Punjab** in JEE Main 2014 given by about 1,500,000 students.
- Conferred with **Kishore Vaigyanik Protsahan Yojana (KVPY)** Scholarship in 2012 by IISc Bangalore.
- Qualified National Standard Examination in Chemistry (**NSEC**) and National Standard Examination in Astronomy (**NSEA**) in 2013.

PROJECTS:

- Joint Seat Allocation Algorithm for IITs, NITs, several IIITs and other GFTIs 2016** Dec '15 - Apr'16
(Mentor: Dr. Surendra Baswana, Department of Computer Science and Engineering, IIT Kanpur)
 - Implemented a Joint Seat Allocation algorithm complying with the business rules of JoSAA 2016.
 - Tested the algorithm on large input data sets of size 0.2-0.5 million candidates.
 - Improved time taken by algorithm by 70% times as compared to previous year software for some test cases.
- Combinatorial Game Theory** Jul '15 – Nov '15
(Mentor: Dr. Rajat Mittal, Department of Computer Science and Engineering, IIT Kanpur)
 - Studied heuristics and basic techniques applicable in combinatorial games.
 - Analyzed strategies related to some classical combinatorial games like Nim, Hex, Domineering and Tic-Tac-Toe.

Ongoing PROJECTS:

- NachOS Extension** -Ongoing
(Mentor: Dr. Mainak Chaudhuri, Department of Computer Science and Engineering, IIT Kanpur)
 - Involves extending the standard system call library and implementing process scheduling algorithms and page replacement algorithms for NachOS.
- Playing Atari Games Using Deep Reinforcement Learning** -Ongoing
(Mentor: Dr. Piyush Rai, Department of Computer Science and Engineering, IIT Kanpur)
 - Involves implementing deep reinforcement learning algorithms for some Atari games and smartphone games.
- Online Academic Registration Portal** -Ongoing
(Mentors: Dr. Piyush Kurur and Dr. Satyadev Nandakumar, Department of Computer Science and Engineering, IIT Kanpur)
 - Involves revamping the current online academic registration portal and making a new platform using Ruby on Rails.

POSITIONS OF RESPONSIBILITY:

- UG Coordinator, ACA, Student Body of CSE Department, IIT Kanpur** Aug '16 – Current
 - Involves organizing all the departmental activities ranging from hackathons to departmental farewell.
 - Facilitated smooth conduction of ACA summer school with around 300 registered students as a Secretary.
 - Organized departmental happy hours for promoting student-faculty interaction.
- Secretary, Programming Club, IIT Kanpur** Apr '15 – Apr'16
 - Assisted in making problems and test cases for institute level weekly programming contests.
 - Helped in organizing institute level programming club lectures and events.
- Secretary, Animation Club, IIT Kanpur** Apr '15 – Apr'16
 - Supported coordinators in conducting institute level workshops and hall level lectures.
 - Supervised conduction of animation club events in Spectrum – annual inter hall film club competition.
- Senior Web Executive, Techkriti 2016, Annual Technical Festival of IIT Kanpur**
 - Assisted Web Head in developing and maintaining Techkriti 2016 official website.

RELEVANT COURSES:

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| Machine Learning Techniques [^] | Computing Laboratory - II [^] | Operating Systems [^] |
| Computing Laboratory - I | Computer Organization | Fundamentals of Computing |
| Data Structures and Algorithms | Design and Analysis of Algorithms [^] | Discrete Mathematics |
| Probability and Statistics | Theory of Computation [^] | Introduction to Economics |

[^] - Ongoing

TECHNICAL SKILLS:

- Programming Languages:**
C, C++, Python, C#, Bash, HTML, CSS, JavaScript, PHP, SQL, Verilog, Assembly
- Software & Utilities:**
GNU Octave, Git, LaTeX, Vim, Gnuplot, MATLAB, Autodesk 3ds Max, Adobe Photoshop, Unity 3D