

Aniket Pandey

SECOND YEAR UNDERGRADUATE · MATHEMATICS AND SCIENTIFIC COMPUTING

Indian Institute of Technology Kanpur

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Education

Indian Institute of Technology Kanpur

BACHELOR OF SCIENCE, MATHEMATICS AND SCIENTIFIC COMPUTING

Kanpur, India

2016 - 2020 (Expected)

- Cumulative Grade Point / **CGPA: 7.4/10.0**

Honors & Awards

COMPETITIVE EXAMS

- | | | |
|------|---|----------------|
| 2014 | All India Rank 1 , KVS Junior Mathematics Olympiad, with a record score of 92/100 | KVS, India |
| 2013 | All India Rank 1 , FIITJEE Talent Reward Examination, perfect score of 214/214 | FIITJEE India |
| 2012 | All India Rank 90 , National Talent Search Examination, NTSE Scholarship | NCERT, India |
| 2014 | All India Rank 214 , Kishore Vaigyanik Protsahan Yojana, KVPY Fellowship | IISc Bangalore |
| 2016 | All India Rank 908 , JEE Advanced, among 200,000 candidates | IIT Guwahati |

OLYMPIADS

- | | | |
|---------|---|---------------|
| 2013 | Regional Mathematics Olympiad , Selected for INMO from Delhi Region | HBCSE, Mumbai |
| 2013 | Junior Science Olympiad , Among the top 35 merit students in INJSO | HBCSE, Mumbai |
| 2015,16 | Astrophysics Olympiad , Among the top 25 merit students in INAO-Sr , Twice | HBCSE, Mumbai |

Projects

Full Stack Web Development

Kanpur, India

SUMMER PROJECT, PROGRAMMING CLUB

May. 2017 - July. 2017

- Developed a scalable web application for nominations of various posts of Gymkhana, IITK.
- Used Django along with Django-Rest-Framework and PostgreSQL for developing the portal.
- Implemented dynamic heirarchy levels, search feature, django-filter and multiple model versions in the back-end API.
- Designed a Responsive User Interface from scratch using Bootstrap and jQuery.

Computational Complexity Theory

Kanpur, India

SEMESTER PROJECT, ASSOCIATION COMPUTING ACTIVITIES

IInd Semester

- Reading Project on Theory of Computation. Studied about non-deterministic complexity classes eg. NP, NP-Complete, NP-Hard.
- Researched the fundamental working of **Turing Machine** and its properties. Analyzed famous NP-Complete problems, e.g SAT, Hamiltonian Path, Travelling Salesman etc.
- Understood the implication of Complexity Theory in Quantum Computing and Cryptography.
- Prepared the final report in \LaTeX which is now under examination.

Extracurricular Activity

Programming Club, IIT Kanpur

IIT Kanpur, India

SECRETARY

April. 2017 - Present

- Helped in preparing the timeline for Pclub activities during the vacation.
- Coordinated with colleagues in Linux Install Fest and helped install various distros of Linux in students' laptops
- Conducted a lecture in basic python and web-scraping with the Coordinator of Programming Club

Rubiks Cube Hobby Group, IIT Kanpur

SECRETARY

- Taught the basic algorithms of Speed Solving during Summer Camp.
- Learnt various techniques of Blind-folded cube solving

IIT Kanpur, India

April. 2017 - Present

Astronomy Club, IIT Kanpur

SECRETARY

- Helped in creating/testing Planetarium shows for Fresher students.

IIT Kanpur, India

April. 2017 - Present

Stamatics, IIT Kanpur

HEAD OF WEB DEVELOPMENT

- Given the task of maintaining Stamatics Web-page and typesetting Mathemania papers in \LaTeX

IIT Kanpur, India

April. 2017 - Present

Skills

Programming Python, C/C++, JavaScript, TypeScript, Java, Haskell

Web Django, Express.js with Node.js, Bootstrap, Angular

Operating Systems Kali Linux, Linux Mint, Ubuntu, Microsoft Windows

Utilities Git, Vim, Docker, \LaTeX , SQLite, Aircrack-ng, Wireshark

Relevant Coursework

Data Structures & Algorithms*
Introduction to Programming
Intro to Machine Learning**

Discrete Mathematics*
Differential Equations
Mathematical Logic*

Linear Algebra
Introduction to Analysis
Abstract Algebra*

*: Ongoing Course

** : Online Course

Miscellaneous

- Among the top **6** teams out to give final presentation in SnT Summer Camp
- Maintain a blog ([link](#)) about Linux, Programming and VCS.
- Contributor at open source organisation Astropy and Python module pyperclip.
- Among the select freshers to complete PClub's *Getting first PR merged* challenge.
- Won the Astronomy Trophy as a pool team in *Takneek-17*