Aniket **Pandey**

SECOND YEAR UNDERGRADUATE · MATHEMATICS AND SCIENTIFIC COMPUTING

Indian Institute of Technology Kanpur

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Educational Qualifications

Year	Degree	Institution(Board)	CGPA/%
July'16	B.S Maths	Indian Institute of Technology, Kanpur	7.4/10.0
2016	AISSCE – XII	K.V R.K.Puram Sec-2, New Delhi	94.0%
2014	AISSE – X	K.V R.K.Puram Sec-2, New Delhi	10/10

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**, Anomg the top **35** merit students in **INJSO**	*HBCSE, Mumbai*
2015,16	**Astrophysics Olympiad**, Anomg the top **25** merit students in **INAO-Sr**, Twice	*HBCSE, Mumbai*

Work Experience

Full Stack Web Development   *Kanpur, India*

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 and multiple model versions in the backend API.
- Designed a Responsive User Interface from scratch using Bootstrap and jQuery.

Senior Web Executive   *IIT Kanpur*

ANTARAGNI - 17   *July'2017 - Oct'2017*

- Used the full **MEAN Stack** for a fest webapp and its admin control panel.
- Dynamic website with content easily changeable via the control panel.
- Supported Android App as well with an API.

Projects

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.

Graph Theory and Algorithms

SEMESTER PROJECT, STAMATICS

Kanpur, India

IInd Semester

- Undergoing Research project on analyzing various Graph algorithms and their Time-Complexities.
- Investigated famous algorithms like Bellman-Ford , Dijkstra and implemented them in solving real-life problems.

Extracurricular Activity

Stamatics, IIT Kanpur

SENIOR WEB EXECUTIVE

IIT Kanpur, India

April. 2017 - Present

- Developed and deployed the responsive website of Stamatics in **Angular** with custom domain *stamatics.org*
- Dockerized the site and maintained the backend with real-time databasing

Programming Club, IIT Kanpur

SECRETARY

IIT Kanpur, India

April. 2017 - Present

- Organized a lecture on Python and Web-Scraping for peer students
- Helped install various distos of Linux in students' laptops during Linux Install Fest
- Prepared recruitment test questions and blogs for Fresher students

Hall captain, Marathas

TAKNEEK - 17

IIT Kanpur, India

August. 2017

- Led the pool to victory in the Inter-hostel technical competition, *Takneek*
- Also won the maiden trophies of Astronomy and Programming

Skills

Programming	Python, C/C++, JavaScript, TypeScript, Shell, Java, Haskell
Web	Django, Express.js with Node.js, Bootstrap, Angular
Utilities	Git, Vim, Docker, Linux Shell Utilities, LaTeX, Mongo-DB, Aircrack-ng, Wireshark

Positions of Responsibility

- Secretary, Programming Club, Astronomy Club & Rubiks Cube Hobby Group, IIT Kanpur

- Senior Executive, Web, Antaragni'17 & Techkriti'18

- Web Executive, Stamatics IIT Kanpur

Relevant Coursework

Data Structures & Algorithms*	Discrete Mathematics*	Linear Algebra
Introduction to Programming	Differential Equations	Introduction to Analysis
Intro to Machine Learning**	Mathematical Logic*	Abstract Algebra*

* : Ongoing Course   *** : Online Course*

Miscellaneous

- Among the top **6** teams out to give final presentation in SnT Summer Camp

- Cited in The Journal of Open Source Software(JOSS) for contributing to Astropy[™]

- Maintain a blog (*link*) about Linux, Programming and VCS.

- Among the select freshers to complete PClub's *Getting first PR merged* challenge.