

SECOND YEAR UNDERGRADUATE · MATHEMATICS AND SCIENTIFIC COMPUTI

Indian Institute of Technology Kanpur

□ (+91) 959-988-1876 | **□** aniketp@iitk.ac.in | **☆** aniketpandey.com | **□** aniketp41 | **□** aniketp41

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
IIInd Semester

IIIna Semes

- 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

IIT Kanpur, India

SENIOR WEB EXECUTIVE

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

IIT Kanpur, India

SECRETARY

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

IIT Kanpur, India

TAKNEEK - 17

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, ŁTFX, 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* Introduction to Programming Intro to Machine Learning** Discrete Mathematics* Differential Equations Mathematical Logic*

Introduction to Analysis Abstract Algebra*

Linear 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.