

# Aniket Pandey

First Year Undergraduate • Mathematics and Scientific Computing

🌐 aniketpandey.com | ✉ aniketp@iitk.ac.in | 🐱 aniketp41 | in aniketp41

## EDUCATION

### IIT KANPUR

B.S IN MATHEMATICS AND  
SCIENTIFIC COMPUTING  
July 2016- 2020 (Expected)

### K.V R.K.PURAM, SEC-2

AISSCE, CBSE, OVERALL: 94.0%  
May 2016 | New Delhi, India

### K.V R.K.PURAM, SEC-2

AISSE, CBSE: 10 CGPA  
May 2014 | New Delhi, India

## LINKS

Github:// [aniketp41](#)

LinkedIn:// [aniketp41](#)

## RELEVANT COURSES

Data Structures and Algorithms (i)  
Discrete Mathematics (i)  
Introduction to Programming  
Introduction to Analysis  
Linear Algebra & Differential Equation  
Intro to Machine Learning (m)  
(i : Ongoing Courses | m : Online Courses)

## SKILLS

### PROGRAMMING

Python • Javascript • C • C++

Familiar:

Haskell • SQL • Bash

### WEB DEV / FRAMEWORKS

HTML5 • CSS3 • SCSS/Sass  
Bootstrap • Django • Angular

### OPERATING SYSTEMS

Kali Linux • LinuxMint • Ubuntu  
Microsoft Windows

### UTILITIES

Docker • SQLite •  $\text{\LaTeX}$  • Vim  
Git

## INTERESTS

Web Development • Open Source  
Python Scripting • Wireless Security  
Machine Learning • Combinatorics

## EXPERIENCE AND PROJECTS

### GYMKHANA NOMINATION PORTAL | SINCE MAY'17

Summer Project , Programming Club

- 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 backend API.
- Designed a Responsive User Interface from scratch using Bootstrap and jQuery.

### COMPUTATIONAL COMPLEXITY THEORY | 2<sup>nd</sup> SEMESTER

ACA Semester Project under Prof. Rajat Mittal

- 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  $\text{\LaTeX}$  which is now under examination.

## AWARDS AND ACHIEVEMENTS

2014	<b>AIR 1</b>	KVS Junior Mathematics Olympiad, with a record score of <b>92</b> out of 100
2012	<b>AIR 90</b>	NTSE Scholarship Examination, NCERT & Govt. of India
2014	<b>AIR 214</b>	KVPY-SA Fellowship Examination, IISc Bangalore
2016	<b>AIR 908</b>	JEE Advanced 2016, IIT-Guwahati
2013	<b>RMO</b>	Selected for <b>INMO</b> -14 from Delhi Region
2014	<b>INJSO</b>	Amongst the top <b>36</b> merit students selected in Junior Science Olympiad
2016	<b>INAO-Sr</b>	Amongst the top <b>25</b> merit students selected in Astrophysics Olympiad

## MISCELLANEOUS

- Secretary at *Programming Club*, *Astronomy Club* and *Rubik's Cube Hobby Group*.
- Head-Web at Stamatics Organisation , IIT Kanpur.
- Well maintained profile on GitHub. Contributor at open source organisation Astropy and Python module pyperclip.
- Maintain a blog ([link](#)) about Linux, Programming and VCS.
- Among the select freshers to complete Programming Club's *Getting first PR merged* challenge.