

# Aniket Pandey

First Year Undergraduate • Mathematics and Scientific Computing

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## EDUCATION

### IIT KANPUR

B.S IN MATHEMATICS AND  
SCIENTIFIC COMPUTING

July 2016-Present | CPI: 7.7/10.0

### 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:// [aniketp](#)

## RELEVANT COURSES

Data Structures and Algorithms (i)

Introduction to Programming

Introduction to Analysis

Linear Algebra & Differential Equation

Principles of Quantum Mechanics

(i Ongoing Courses)

## SKILLS

### PROGRAMMING

Python • Javascript • C • C++

Familiar:

Haskell • SQL • Bash

### WEB DEV / FRAMEWORKS

HTML5 • CSS3 • Django

Bootstrap • SCSS/Sass

### OPERATING SYSTEMS

Kali Linux • LinuxMint • Ubuntu

### UTILITIES

Git • Vim •  $\LaTeX$  • MySQL

## INTERESTS

Front-End Development

Python Scripting • Open Source

Combinatorics • Astronomy

## EXPERIENCE AND PROJECTS

### GYMKHANA NOMINATION PORTAL | SINCE MAY'17

Summer Project , Programming Club

- Created a web application for nominations of various posts of Gymkhana, IITK .
- Used Django along with Django-REST-Framework and PostgreSQL among other technologies for developing the backend.
- Implemented dynamic heirarchy level, search feature, notification and mail system in the backend API.
- Designed and tested the frontend using Bootstrap & SemanticUI .

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

ACA Semester Project

- 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.

## 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 at *homepage/blog* about Linux, Programming and VCS.
- Among the select freshers to complete Programming Club's *Getting first PR merged* challenge.