Aniket Pandey

Second Year Undergraduate • Mathematics and Scientific Computing

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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:
Java • Haskell • SQL • Bash

WEB FRAMEWORKS
Bootstrap • Django • Angular
Node.js with Express.js

OPERATING SYSTEMS
Kali Linux • LinuxMint • Ubuntu
Microsoft Windows

UTILITIES
Docker • SQLite • LaTeX • Vim
Git • Aircrack-ng • Wireshark

INTERESTS

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

EXPERIENCE AND PROJECTS

GYMKHANA NOMINATION PORTAL | May'17 - July'17
Summer Project , Programming Club

- Developed a scalable web application for nominations of various posts of Gymkhana, IITK .
- Used Django along with Django-Rest-Framwork 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^{nd} 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	**AIR 1**	KVS Junior Mathematics Olympiad, with a record score of **92** out of 100
2012	**AIR 90**	NTSE Scholarship Examination, NCERT & Govt. of India
2014	**AIR 214**	KVPY-SA Fellowship Examination, IISc Bangalore
2016	**AIR 908**	JEE Advanced 2016, IIT-Guwahati
2013	**RMO**	Selected for **INMO**-14 from Delhi Region
2014	**INJSO**	Amongst the top **36** merit students selected in Junior Science Olympiad
2016	**INAO-Sr**	Amongst the top **25** 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.