Anuj

Junior Undergraduate

Computer Science and Engineering Department

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ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2021 - Present	Bachelors in Technology	Indian Institute of Technology Kanpur	9.04/10
2021	CBSE(XII)	DAV Centenary Public School, Jind	96.6%
2019	CBSE(X)	DAV Centenary Public School, Jind	95.4%

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank 195 in JEE Advanced 2021 among the 140,000 shortlisted candidates
- Secured All India Rank 1254 in JEE Mains 2021 among 1.2 million candidates

EXPERIENCE

Summer Intern | Mentor - Prof. Shivam Tripathi, IIT Kanpur

May'23-Jul'23

- Developed a dashboard utilizing Flask framework to monitor and analyze real-time data from 15+ diverse field devices
- Performed data analysis techniques like outlier detection and curve smoothing to eliminate anomalies in the data
- Utilized **PostgreSQL** to store and manage data, incorporating python **OOP** concepts to encapsulate database interaction
- ullet Leveraged **Highcharts JS** library to create interactive charts and **Bootstrap5** for an intuitive and responsive **UI** interface

KEY PROJECTS

Health++ ♥ | CS253 Course Project | Mentor - Prof. Indranil Saha, IIT Kanpur

Jan'23-May'23

- Led a team of 10 students to develop a platform that brings services provided by IIT Kanpur's Health Center online
- Used **Django** framework for backend development and created the UI of the website using **HTML**, **CSS** and **JS**
- Executed an end-to-end software development process from ideation to implementation and rigorous testing

Clash of Code | Project Mentor | Association for Computing Activities (ACA), IIT Kanpur

May'23-Jul'23

- Guided a group of 20+ aspiring programmers in a project focused on improving competitive programming skills
- Organized weekly coding sessions and conducted interactive discussions to foster a collaborative learning experience
- Discussed popular algorithms in topics like Number Theory, Graphs and Trees with their implementation in C++

Intro To CP | Association for Computing Activities (ACA) Project, IIT Kanpur

May'22-Aug'22

- Revised the syntax of C++ and learned how to analyze the time complexity of algorithms using Big-O notation
- Studied the data structures provided by C++ Standard Template Library, including vectors, maps, stacks
- Participated in competitive programming competitions hosted on platforms such as Codeforces and CodeChef

Under The Hood () | Programming Club, IIT Kanpur

Anr'99- Inl'99

- $\bullet \ \ \text{Explored the intricate mechanics behind arithmetic operations and fundamental principles driving computer functionality} \\$
- Acquired proficiency in Verilog syntax and gained a strong foundation in Hardware Description Language
- Employed the qtSPIM tool to analyze and execute MIPS Assembly language programs
- Culminated learning experience by creating a **Tic-Tac-Toe** game from scratch using the MIPS assembly language

Teaching Assistant | Prutor@IITK 2022

Feb'22-May'2

- Worked as a Teaching Assistant for **SATHEE** project, a collaborative effort between National Testing Agency and IITK
- Furnished 20+ problem sets and supplementary materials on a broad range of topics in Physics, Chemistry, and Maths
- Conducted doubt-clearing sessions, delving into techniques and strategies for excelling in the Joint Entrance Examination

PROGRAMMING AND OTHER ACHIEVEMENTS

- Max Rating of 1706 (Expert) on Codeforces (AnujS) and 1899 (4 Star) on Codechef (anujs_04)
- Global rank 4 in Codechef Septemer Long 2022 and global rank 24 in Codechef Starters 97 Division 2 contest
- Participated in Microsoft Cybersecurity Engage 2022 and learnt fundamentals of cryptology and encryption
- Participated in India Terminal 2023 organized by Citadel and featuring over 30,000 engineers and data scientists

TECHNICAL SKILLS

- Proficient: Python, C, C++, JavaScript, Git, Bash, SQL, HTML, CSS, LATEX, MS-Excel
- Beginner: NodeJS, Bootstrap, AutoCAD, Verilog HDL, Assembly Language
- Libraries and Frameworks: Flask, Django, NumPy, Pandas, MatPlotLib, Tensorflow

RELEVANT COURSES

(A* - Exceptional Performance)

Data Structures and Algorithms A*	Fundamentals of Computing A*
Software Development and Operations A*	Discrete Mathematics
Logic in Computer Science A*	Probability for Computer Science
Computer Organisation	Linear Algebra
Machine Learning Specialization - Deeplearning.ai, Coursera	Algorithmic Toolbox - UCSD, Coursera

POSITION OF RESPONSIBILITY

Academic Mentor | Counselling Service, IIT Kanpur

Aug'22-Jul'23

- Helped acclimatize the juniors to the academic environment at IIT Kanpur and guided them with their coursework
- Conducted AM sessions to help solve students' academic doubts in their programming course ESC101
- Conducted doubt clearing sessions and provided one-to-one mentorship to a group of 30 freshman students