

DEEPANSHU

3rd Year Undergraduate

Department of Computer Science and Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2021 - Present	B.Tech	Indian Institute of Technology Kanpur	7.0/10
2021	CBSE(XII)	Yaduvanshi Shiksha Niketan, Narnaul	89.8%
2019	CBSE(X)	Yaduvanshi Shiksha Niketan, Narnaul	90.6%

Scholastic Achievements

- Secured **All India Rank 1040** in **JEE-Advanced 2021** among 1.4 Lakh candidates, Conducted by IIT Kharagpur.
- Secured **All India Rank 2198** in **JEE-Mains 2021** among 10 lakh+ appeared candidates all over India.
- Recipient of Excellence Scholarship from **National Talent Search Examination 2019** conducted by **NCERT**.
- Secured **100 percentile** in **Physics** subject in **JEE-Mains 2021** by scoring a maximum possible score 100/100.
- Among **State top 1%** in **National Standard Examination In Junior Science 2018-2019** conducted by IAPT.

Key Projects

HealthPlusPlus 🗄 | CS253 Course Project (Jan'23-Apr'23)

Mentor: Prof. Indranil Saha (Computer Science and Engineering, IIT Kanpur)

- With a team of 10, Developed an **automated software** for **Health Center** of IITK providing its services online.
- Used rapid development framework **Django** for back-end and its SQL database, **HTML**, **CSS**, **Javascript** for front-end.
- Executed an end-to-end development process from **SRS** and **Design** document to **implementation** of automated parts.
- Collaborated with another team for Beta Testing to identify and resolve the errors within both team's application

CSE-Bubble Processor 🗄 | CS220 Course Project (Jan'23-Apr'23)

Mentor: Prof. Urbi Chatterjee (Computer Science and Engineering, IIT Kanpur)

- Framed a single-cycle processor, including op-code design, data path implementation and control path development.
- Implemented ALU in top-down approach to develop different modules for different types of instructions.
- Implemented MIPS code for Bubble Sort, converting it to machine code and storing output in data memory.

Space Travel System 🗄 | CS253 Course Assignment (Mar'23-Apr'23)

- Implemented concepts of Object Oriented Programming of C++ in a Space Travel System(STS) to efficiently manage inter-planetary travel, with automatic initialisation of flights and assigning of commander and astronauts to it.
- Utilized various Inheritance classes, Virtual functions, Exception handling to all classes for proper functioning.
- Completed all functionalities starting from registration of travellers to their space travel to respective planets.

Mathematical Tools for Data Science 🗄 | Stamatics Society, IIT Kanpur (Apr'22-Jun'22)

- Learned basic libraries **Numpy** and **Pandas** for data analysis, matplotlib based **Seaborn** for data visualization.
- sdgaga
- Learned using Version Control Systems **Git** and **Github**, properly for project management.

Full Stack Web Development 🗄 | Association for Computing Activities (ACA) Project, IIT Kanpur (Mar'22-Jun'22)

- Learned basics of web development, using Bootstrap, Javascript and how to make **API calls** to server hosted on cloud.
- Implemented a personal **portfolio** with **user registration and authentication**, and added my details to it.

Technical Skills

FamiliarWith*

- Programming Languages:** C, C++, Python, Javascript*, HTML, CSS, SQL, Verilog HDL*,
- Libraries/Utilities:** Pandas, Numpy, Django, Seaborn*, ReactJS*, Bash, L^AT_EX, AutoCAD, Adobe Illustrator

Positions of Responsibility

- Head, Web and App** (Udghosh, IIT Kanpur) (Jun'23-Ongoing)
 - Leading a 3-tier team of 20+ developers building and maintaining platforms for smooth conduction of the festival.
 - Made WebApps fully from Scratch using **ReactJs** and **GSAP** with registration of 6k+ users on website itself
 - Used **Node package manager** and **Google-firebase** hosting to host the WebApp 🗄 on the respective domains.
- Academic Mentor Phy112/115** (Counselling Services) (Nov'22-Jul'23)
 - Conducted Institute level remedial classes for 30+ freshmen and also organised doubt session at wing levels.
 - Helped juniors in the subject by clarifying doubts and strengthen their concepts, particularly in Central Forces
- Organizer, Design** (Udghosh, IIT Kanpur) (Aug'22-Oct'22)
 - Successfully worked with **Digital design** team for creating **UX Designs** for Website, for brochure and posters
 - Assisted in conduction of UNOSQ with 3 tier team and subsequently increased number of participants.

Relevant Completed Courses

A*-Exceptional Performance

Data Structure and Algorithms	Computer Organization	Introduction to Economics*
Software Developments and Operations	Modern Cryptology	Introduction to Electronics
Discrete Maths for Computer Science	Logic for Computer Science	Probability for Computer Science
Fundamentals of Computing	Linear algebra and ODE	

Extra-Curricular Activities

- Actively Participating in Coding Contests on Codeforces for 2 months with current best rating of 1269.
- Bagged 2nd position in **GUESS-IT-MATE** competition organised by Finance & Analytics Club with team of 4 students.
- Participated in Freshers Dance Showcase by Dance club IITK with a team of 20 students.