# Deepanshu

3rd Year Undergraduate

Department of Computer Science and Engineering

#### **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 2204 in JEE-Main 2021 among 10 lakh+ appeared candidates all over India.
- Recipient of Excellence Scholarship from National Talent Search Examination 2019 conducted by NCERT.
- Scored 100 percentile in Physics subject in JEE-Main 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.
- $\bullet \ \ {\bf Executed} \ \ {\bf an} \ \ {\bf end} \ \ {\bf to} \ \ {\bf end} \ \ {\bf Design} \ \ {\bf document} \ \ {\bf to} \ \ {\bf implementation} \ \ {\bf of} \ \ {\bf automated} \ \ {\bf parts}.$
- Collaborated with another team for **Beta Testing** to identify and resolve the errors within both team's applications

#### 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 Opcode design, data path implementation and control path development.
- Implemented **ALU** and **Control Unit** in the top-down approach to develop different modules for different Opcodes.
- Utilized MIPS-32 code for Bubble Sort, converting it to machine code and storing output in data-memory VEDA.

#### Space Travel System O | CS253 Course-Assignment

(Mar'23-Apr'23)

- Implemented concepts of **Object Oriented Programming** of C++ in a Space Travel System(STS) to efficiently manage interplanetary travel, with automatic initialization of flights and assignment of commanders 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 travelers to their space-travel tickets for respective planets.

#### Mathematical Tools for Data Science () | Stamatics Society, IIT Kanpur

(Apr'22-Jun'22)

- Learned basics of Numpy and Pandas libraries for data analysis, matplotlib based Seaborn for data visualization.
- Applied Seaborn on a dataset of salaries of employees and visualized the trends in their Overtime benefits.

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

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

#### Technical Skills

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

## Positions of Responsibility

• Head, Web and App (Udghosh, IIT Kanpur)

(Jun'23-Present)

- Leading a **3-tier team** of 20+ developers building and maintaining platforms for the smooth conduction of festival.
- Made WebApps fully from Scratch using **ReactJs and GSAP** with registration of 6k+ users on the website itself.
- Used **Node package manager** and **Google-firebase** hosting to host the WebApps 

  ✓ on the respective domains.
- Organizer, Design & Videography (Udghosh, IIT Kanpur)

Aua'22-Oct'22)

- Successfully worked with **Digital design** team for creating **UX Designs** for Website, for brochure and posters.
- Assisted in conducting UNOSQ with 3 tier team and subsequently increased the 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	Algorithm-II(Ongoing)			
The Arma Committee I are A at 12 th and					

# **Extra-Curricular Activities**

- Was Academic mentor of course Phy112/115 for session 2021-22, mentoring 30 freshman students in Academic difficulties.
- Bagged 2nd position in GUESS-IT-MATE competetion organised by Finance & Analytics Club with team of 4 students.
- Active participation in Inter Hall technical competition **Takneek'23**, securing overall 2nd position among other halls.