Brinda Fadadu

Second Year Undergraduate
Department of Computer Science and Engineering | IIT Kanpur

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ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2023 - Present	B.Tech(CSE)	Indian Institute of Technology Kanpur	7.9/10.0
2023	AISSCE(XII)	Krishna International School-Rajkot	94.5%
2021	AISSCE(X)	Krishna International School-Rajkot	89%

SCHOLASTIC ACHIEVEMENTS

- Secured an **All India Rank of 586** in **JEE Advanced 2023**, amongst **1.5 lakh+** shortlisted candidates *(2023)*
- Secured **All India Rank 664** in **JEE Mains 2023** among **1.2 million** candidates, conducted by NTA *(2023)*

KEY PROJECTS

Virtual Glasses and Jewellery Try-On *(Prof. Sruti S Raghavan, CSE Dept.)* *(Nov'24-Present)*

Objective	• Building a webpage that utilizes **Augmented Reality** to let the user virtually try on jewelry of their choice
Approach	• Used **TensorFlow's FaceMesh** for real-time **face landmark detection** with over **486** facial landmarks • Developed a feature to overlay glasses and jewelry virtually, with up to **80**% alignment with facial landmarks • Used **JavaScript, HTML, and CSS** to integrate webcam access and real-time face tracking and scaling • Used **NodeJS** to host the server locally and handle 15+ API routes with **MongoDB** for the database • Used **RemBG** from Python, to remove background from the images of the product uploaded by the seller
Impact	• Impacts **small-scale businesses** by expanding market by about **50**% through the virtual try-on feature

SafeSpace (CS253 Course Project) *(Prof. Indranil Saha)* *(Jan'25-Present)*

Objective	• Developed an anonymous discussion page for mental health-related issues for the campus student body • Worked in a **team of 10 people** to carry out backend, frontend and design of project effectively
Approach	• Executed an end-to-end software development process from ideation to implementation and rigorous testing • Led the design and front-end of the project along with **3** other members through **Agile** development • Used **Figma** to design **10+ components and 5+ pages** for the website with one other member. • Implemented the front end and made these components using **ReactJS** with **JavaScript, CSS, HTML** • Used **Model View Controller** Architecture and **Pipe and Filter** Architecture for modular data processing • Used **FastAPI** for back-end development and **MongoDB** for databasing along with other Python libraries
Impact	• Made mental health solutions more accessible for a campus community of **8000+ students** • Got in contact with and collaborated with **9 in-campus counselors** of Institute Counseling Service

Library Management System (CS253 Course Project) *(Prof. Indranil Saha)* *(Mar'25-Present)*

- Designed and implemented an **object-oriented** Library Management System using C++
- Developed a structured class hierarchy for users with role-based access control and functionality.
- Implemented file handling for data persistence for user records, book inventory, and transactions

TECHNICAL SKILLS

- **Proficient**: Python, C, C++, JavaScript, HTML, CSS, Verilog, LATEX, Figma, Git, GitHub
- **Beginner**: NodeJS ,Java, MS-Excel
- **Softwares and Libraries**: NumPy, Pandas, MatPlotLib, Tensorflow, React

RELEVANT COURSEWORK(*ongoing courses*)

Data Structures and Algorithms	Fundamentals of Computing
Discrete Maths	Mathematical Logic
Software Development and Operation*	Computer Organization*
Introduction to Probability*	Introduction to Electronics

POSITIONS OF RESPONSIBILITY

Secretary | Debating Society | IIT Kanpur *(April'24-Present)*

Leadership	• Trained a team of **20+ students**; training for competitive national and international debate tournaments
Management	• Successfully organized **Freshers' Debating Tournament**, a campus wide event with **200+ participants** • Convened the first edition of IITKAPD with **300+ participants from 6 different countries**, managing a budget of over **INR 1,50,000** • Convened the 2nd edition of IITKPD with **20+ teams from 6 colleges**, overseeing event operations and managing offline accommodation for all participants
Impact	• Increased participation for Fresher's Debating Tournament **by 250 % by training 200+ freshers** in a buddy program • Boosted reach of the club by **3x** to bolster club's online presence by curating pages on 4 social media platforms

EXTRA-CURRICULAR ACTIVITIES

- Guided **5** first-year students emotionally and academically as a Student Guide for Counseling Services
- Guided students and solved doubts in Chemistry of over **5000** students as an Academic Mentor for Counseling Services
- Participated in RMLPD, IITKPD, DTUPD debating tournaments as an adjudicator and a speaker