Soham Hanmane

3rd Year Undergraduate
Department of Aerospace Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2022 - Present	B.Tech	Indian Institute of Technology, Kanpur	7.4/10
2022	State Board(XII)	Nav Krishna Valley jr. College,Sangli	79.3%
2020	CBSE(X)	Appasaheb Birnale Public School,Sangli	94.2%

Scholastic Achievements

- Secured All India Rank 5644 (EWS-683) in JEE Advanced 2022 among the 1.6 Lakh shortlisted candidates.
- Among the top 1.4% of the 1.1 million applicants in JEE Mains 2022.
- Among the top 0.9% of the 0.6 million applicants in MHT CET 2022 an entrance exam conducted by **Government of Maharashtra**.

Key Projects

- **RGB Color Sorter** | Course Project(TA212) (*Feb'24- Apr'24*)
  - Collaboratively designed and developed an **Arduino-based RGB color sorting system**, integrating hardware components for seamless communication.
  - Worked with the team to program a color sensor that accurately detects and classifies objects based on their RGB values, achieving high precision in color differentiation.
  - Implemented efficient sorting algorithms and optimized the system for high-speed operations, ensuring reliable and accurate sorting performance.
- **Text to Speech Converter Webpage**| Self Project (*May'24-July'24*)
  - Developing a Text-to-Speech converter website using **HTML, CSS, and JavaScript**, enabling users to input text and receive audio output in various accents.
  - Implemented a user-friendly interface with responsive design, ensuring compatibility across desktop and mobile devices.
  - Integrated third-party APIs like the **SpeechSynthesis API** of the global window object and the **SpeechSynthesisUtterance** to create an utterance of the entered text, enhancing the website's functionality and user experience.
- **RouteMaster App (Algo)** |Self Project (*May'24- Ongoing*)
  - **RouteMaster** is an app that takes source and destination locations and displays the shortest path between them.
  - The program is written in C++ and utilizes various algorithms such as **Dijkstra's algorithm, Breadth-First Search (BFS)** to find the shortest path.
  - The program is implemented using Graph and Heap data structures, where nodes represent different locations and edges represent the distances between them.

Technical Skills

- **Programming Languages:** C, C++, HTML, CSS
- **Familiar with:** Java, ReactJs, Python
- **Other Skills:** Data Structures and Algorithms(DSA), OOPS

Positions of Responsibility

- **Senior Executive, Robo-Games Events** | Techkriti,IIT Kanpur (*Techkriti'24*)
  - Served as Senior Executive of Events Management for Techkriti, overseeing the planning and execution of various competitions between different universities.
  - Coordinated with multiple teams to ensure seamless event operations, from logistics and scheduling to participant management and judging criteria.
  - Enhanced event visibility and engagement through strategic marketing efforts, leading to increased participation and successful outcomes.

Relevant Courses

Fundamentals of Computing	Linear algebra and Differential Equations
Introduction to Electronics	Complex Analysis
Dynamics	Economy and Public Policy

Extra-Curricular Activities

- Part of 3 membered team which won Niyojan-Riwayat'23-24, an intra-IIT event.
- Participated in gamedev in **Takneek'23**, the intra-IITK Science and Technology Championship.