Mahak Mehta

4th Year Undergraduate
Department of Mechanical Engineering

✉ mahak22@iitk.ac.in | 🔗 Mahak-Mehta
🔗 MahakMehta19 | 📞 +91 9350275144

ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2022 - Present	B.Tech	Indian Institute of Technology Kanpur	**7.2**/10
2022	CBSE(XII)	Happy Evergreen Senior Secondary School	96.6%
2020	CBSE(X)	Happy Evergreen Senior Secondary School	95.6%

AWARDS & ACHIEVEMENTS

- Secured **All India Rank 7081** in the **Joint Entrance Examination Advanced 2022** amongst 150K+ shortlisted candidates
- Secured an **All India Rank 8716** in the **Joint Entrance Examination Mains 2022** among over 1 million candidates
- Selected among the **Top 250** students in the **HScTSS** Scholarship by Government of Haryana in **2019,** out of **12K+** candidates
- Achieved **11th Olympiad rank** and **2nd state rank** in the 2019 International Olympiad of Science organized by Silverzone

WORK EXPERIENCE

Fyzen Career Solutions Private Limited | Business Analytics and Development Intern *(Aug'23 - Sept'23)*

Objective	• Working with the CEO on **strategies and ideas** to help the company grow it's business and increase sales • Form alliances with **200+** academic institutes to broaden interwiu.com's market reach and collaboration
Approach	• **Analyzed** and **developed strategic business pitches**, coordinating meetings to onboard academic institutions • Collaborated with placement and career development teams across **IITs**, **NITs**, **IIITs,** and other universities • Designed a **brand ambassador** persona and crafted engaging **social media** content to drive user interaction
Impact	• Utilized innovative content **strategies** to increase social media engagement and boost **brand awareness** • Analyzed success stories and **feedback** from ex-users, providing **critical insights** for platform improvements

Raise Digital Solutions | Web Development Intern *(June'23 - July'23)*

Objective	• Enhance user interface and experience on **Raise Digital's** web platform through frontend development
Approach	• Implemented responsive **design principles** using **HTML,CSS,Bootstrap,JavaScript** to enhance user interaction • Ensured the website's layout and functionality were optimized for various devices and screen sizes • Conducted extensive **usability tests** and gathered valuable **user feedback** for iterative improvements • Collaborated closely and iteratively with **backend developers** to seamlessly integrate frontend components
Impact	• Enhanced site responsiveness, cutting load times by **30%** and boosting **user retention** with engaging features

KEY PROJECTS

GANS for Creative Applications: Text2Image | *IITK Consulting Group* 🔗 *(May'23-July'23)*
- Developed a **Text2Image model** using **GANs**, successfully achieving **98% accuracy** in generating images from text inputs
- Trained a **DCGAN** on handwritten datasets, meticulously optimizing various **hyperparameters** to boost accuracy by **20%**
- Designed and implemented **Generator and Discriminator** networks with five convolutional layers, improving image quality
- Implemented data augmentation techniques to enhance the diversity and robustness of the training dataset

Web Development with GoLang | *Association of Computing Activities | IIT Kanpur* *(June'23-Aug'23)*
- Developed the backend of an **e-commerce cart** using **Golang**, ensuring high performance and scalability for web application
- Optimized **database schemas** and interactions using **PostgreSQL,** enabling efficient data storage, and transaction handling
- Integrated key features like user authentication, product management, and order processing, boosting system reliability

Trippo: Travel and Tourism Website | *(Self Project)* 🔗 *(Dec'23-Feb'24)*
- Developed Trippo, a travel and tourism website using **React.js**, enhancing user experience, interactivity and engagement
- Implemented features allowing users to explore destinations, plan trips, and book accommodations and activities seamlessly
- Optimized website **performance** and **responsiveness,** ensuring a smooth and efficient browsing experience for users

TECHNICAL SKILLS *(*Exposure)*

Programming Languages	Utilities and Softwares	Web Development
C/C++, Python, JavaScript, LaTeX	Git, GitHub, Jupyter, PowerBI	HTML, CSS, NodeJS, ReactJS*, MongoDB, GoLang

RELEVANT COURSES

Fundamentals of Computing	Linear Algebra	Complex Variables
Introduction to Electronics	Partial Differential Equations	Single Variable Calculus
Application of Single Variable Calculus	Ordinary Differential Equations	Classical Electrodynamics

POSITIONS OF RESPONSIBILITY

Secretary | *Community Welfare Cell, IIT Kanpur* *(May'23 - April'24)*
- Organized and hosted **"Samvaad,"** featuring renowned speaker **Acharya Prashant**, engaging an audience of over **200+** attendees
- Organized **workers'** festive events, including Diwali, Raksha Bandhan celebrations with SIS Guards and donation **drives**

Secretary | *Career Development Wing, Academics and Career Council, IIT Kanpur* *(May'23 - April'24)*
- Helped in organizing flagship event **"Career Connect"** to facilitate networking and professional growth opportunities
- Organized career development workshops and seminars, providing students with insights and skills for career advancement

EXTRA-CURRICULAR ACTIVITIES

- Secured the **gold medal** in chess (*women*) at **Inferno'22**, an inter-hall games and sports championship organized by GnS, IITK
- Achieved the **second place** in the district-level Eco Quiz organized by the Forest Department of Haryana during Wildlife Week
- Earned **second place** in district-level poster competition for World Wildlife Week, with participation from over **100+ schools**
- Secured **first place** in the Tug of War competition during the **Freshers'22** an intra-hall competition for the freshman batch