



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2026	B.TECH	IIT Kharagpur	8.23 / 10
2022	BIEAP	Fiitjee Junior College	95.5%
2020	BSEAP	Fiitjee High School	99.83%

PROJECTS

Movie Streaming site | General Championship, Technology Students' Gymkhana

[Mar '24]

- Built a frontend application using **NextJS** and **Mantine UI** for a Movie Streaming Application, serving both users and Admin
- Engineered a **REST API** using **NodeJS** and **ExpressJS**, supporting efficient database management and communication
- Implemented secure user authentication and authorization by utilizing **OAuth2** to provide secure access, **JWT**(JSON Web Tokens) for efficient session management, and Role-Based Access Control for appropriate permissions enhancing security

Certificate Generator | Technology Students' Gymkhana, IIT Kharagpur

[Jan '24 - Feb '24]

- Developed a Certificate Generator using **ReactJS**, **NodeJS**, and **MongoDB** for certificate creation and database management
- Designed a template selection and customization features, empowering users to choose or upload their certificate templates
- Implemented an automated email distribution system to efficiently distribute over **4500** personalized certificates to recipients

15 Puzzle | Self Project

[Jul' 23]

- Created an interactive "15 puzzle game" with **HTML**, **CSS**, and **JavaScript**, offering various gameplay modes and challenges
- Designed and implemented easy, medium, and hard difficulty levels to engage users and enhance the gaming experience
- Utilized browser's local storage to persistently save player scores and maintain a leaderboard, enabling offline functionality

AQI Detector | IIT Kharagpur

[Apr '23]

- Designed and built an AQI detector using **Arduino UNO**, **OLED 0.96 I2C display**, **MQ-135 gas sensor**, and **DHT-11 sensor**
- Displayed real-time air quality index (AQI) on OLED Screen, providing an accurate and up-to-date environmental information
- Ensured reliable air quality monitoring by integrating multiple sensors and displaying the data on a user-friendly interface

SKILLS AND EXPERTISE

Computer Languages: Proficient : C | C++ | HTML | CSS | JavaScript Familiar : Python | TypeScript | Verilog**Software Packages:** ReactJS | MongoDB | NodeJS | ExpressJS | Postman | Git | Github | LT Spice**Additional Packages:** Tailwind CSS | Material UI | Mantine UI | Figma | Adobe Photoshop | Blender | ArduinoIDE

POSITIONS OF RESPONSIBILITY

Tech Head | KodeinKGP, IIT Kharagpur

[May '24 - Present]

- Led a diverse team of **50+** members, overseeing and providing oversight for the maintenance of the KodeinKGP website
- Spearheaded development of the **Breadth Recommender Project**, leveraging innovative ideas for a better user experience
- Promote technology and framework adoption in web development through informative seminars, hackathons and workshops

Secretary Web | Technology Students' Gymkhana, IIT Kharagpur

[Aug '23 - Present]

- Maintained functionality, security, and updates for the Gymkhana Website, addressing bugs and ensuring performance
- Developed a robust Certificate Generator using **ReactJS**, **NodeJS**, and **MongoDB**, allowing users to select templates or create custom templates, input data, and automatically email over **4500+** personalized certificates with streamlined efficiency

AWARDS AND ACHIEVEMENTS

- Bagged an All India Rank of **78** among 1 million applicants in **Joint Entrance Examination Main 2022**
- Secured an All India Rank of **2798** in **JEE Advanced 2022**, among a total of over 0.15 million candidates across the country
- Secured an overall rank of **191** among a total of 0.2 million applicants in **Telangana EAMCET 2022**
- Worked my way to **Specialist** and accomplished a maximum rating of **1425** on **Codeforces** (handle - **adarsht30**)
- Achieved an overall global rank of **479** out of 30 thousand participants in **Leetcode Biweekly Contest 111**
- Awarded the **NTSE Scholarship** by the National Council of Educational Research and Training (NCERT) in the year 2020

COURSEWORK INFORMATION

Mathematical and Programming Courses: Advanced Calculus | Programming and Data Structures* | Linear Algebra, Numerical and Complex Analysis | Probability and Statistics | Transform Calculus**Electrical Courses:** Electrical Technology* | Network analysis | Signals And Systems* | Analog Electronics | Digital Electronics* | Electrical Machines* | Measurements and Electronics Instruments* Courses marked * have **lab** component as well

EXTRA CURRICULAR ACTIVITIES

- **Technical** : Part of the Opensoft team at Radha Krishnan Hall, contributing to the design and implementation of cutting-edge software solutions while fostering a collaborative and supportive environment
- **Volunteering** : Served as Student Volunteer in National Service Scheme, IIT Kharagpur for 2 years. Conducted various discussions and participated in awareness drives on Mental Health Issues and Cleanliness in Mirpur village