



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	M.SC(5YR)	IIT Kharagpur	7.76 / 10
2020	CBSE Class 12	Tuli Public School	85%
2018	ICSE Class 10	Marie Poussepin's Academy	92.5%

## INTERNSHIPS

<b>Full-Stack Developer Internship   Infinte Loop Technologies Private Limited</b>	<b>[Jun'22 - Aug'22]</b>
<ul style="list-style-type: none"><li>Developed a <b>video-live streaming</b> sever featuring RTMP ingest and HLS delivery using NGINX supporting upto 512 simultaneous streams</li><li>Implemented live chat feature by using <b>Django Channels</b>, thereby utilizing the <b>WebSockets</b> protocol enabling real-time communication</li><li>Converted monolithic to <b>microservices</b> architecture by <b>dockerizing</b> application and migrated from Django 2.2 to 4.2 improving support</li><li>Developed multiple APIs utilizing the Django Rest Framework to support CRUD operations for various types of social media posts</li></ul>	

## PROJECTS

<b>Leetcode problems Search Engine   Self Project</b>	<b>[May'23 - Jun'23]</b>
<ul style="list-style-type: none"><li>Scraped more than <b>2200</b> LeetCode problems by using Python and Selenium and stored Titles, descriptions, and links for further processing</li><li>Computed the Term Frequency and Inverse Document Frequency and used the <b>TF-IDF</b> score to rank problems based on search query</li><li>Built a <b>web application</b> using <b>Flask</b> to provide an intuitive user interface to search problems and show results and deployed it on <b>Render</b></li></ul>	
<b>Cricket Team Selector and Match Outcome Predictor   Prof. Bibhas Adhikari   Term Project</b>	<b>[Feb'23-Apr'23]</b>
<ul style="list-style-type: none"><li>Built a web scraper using <b>Selenium</b> and <b>Beautiful Soup</b> to extract player performance and ball-by-ball data for last <b>533</b> ODI Intl matches</li><li>Attained best accuracy of <b>86.14%</b> to predict match outcome by utilizing Linear Regression and Random Forests trained on <b>1.37 lakh</b> balls</li><li>Devised a batsman and bowler <b>strength index</b> to select the playing 11 out of a pool of 20 players using the team selector model</li></ul>	
<b>Customer Relation Management Application   Self Project</b>	<b>[Apr'22-Jun'22]</b>
<ul style="list-style-type: none"><li>Developed a comprehensive Customer Relationship Management system using Django for efficient order tracking and management</li><li>Implemented custom Django forms and decorators to streamline CRM operations, resulting in increased efficiency and user satisfaction</li><li>Utilized <b>Django Templates</b> to craft visually appealing UI along with using <b>template inheritance</b> ensuring a seamless experience</li></ul>	
<b>Social Media Application   Self Project</b>	<b>[May'21- Jun'21]</b>
<ul style="list-style-type: none"><li>Built a social media app using <b>MERN</b> stack enabling users to create, share, and react to posts in a collaborative online environment</li><li>Employed <b>Context API</b> for streamlined state management and reduced the API calls significantly, resulting in a <b>30%</b> reduction in load time</li><li>Incorporated Json Web Token(<b>JWT</b>) Authentication for secured user access and interactions by allowing only logged-in users to view posts</li></ul>	

## COMPETITION/CONFERENCE

<b>Hack-an-Intern   KodeinKGP, IIT Kharagpur   Bronze</b>	<b>[Oct'22 - Nov'22]</b>
<b>Objective:</b> Implement a trading platform where users can trade tokens amongst other users while supporting different types of orders <ul style="list-style-type: none"><li>Among the <b>top 3</b> teams in a 48-hour long institute-wide Hackathon, which received participation from more than <b>20</b> different teams</li><li>Built a user-friendly interface using <b>React.js</b>, <b>Ant Design</b> and utilized <b>Highcharts.js</b> to incorporate dynamically updating price charts</li><li>Designed and implemented a <b>stock price matching</b> algorithm for limit and market orders enabling dynamic pricing using Django backend</li></ul>	
<b>Website Hackathon   Technology Students' Gymkhana, IIT Kharagpur   Gold</b>	<b>[Dec'21-Jan'22]</b>
<b>Objective:</b> Develop a one-stop solution to manage all co-curricular and extra-curricular activities under the purview of TSG, IIT Kharagpur <ul style="list-style-type: none"><li>Led a team of 11 members to win the podium in multiple categories and achieved the prestigious <b>First Position</b> amongst 30+ teams</li><li>Built <b>React.js</b> website served through APIs built using <b>django-rest-framework</b> along with <b>jwt</b> authorization and email verification via OTP</li><li>Incorporated features like Bill Reimbursement Portal, Grievance Portal, real-time Notifications, and Admin Panel for content management</li></ul>	

## SKILLS AND EXPERTISE

**Programming Languages:** C, C++, Javascript, Python, SQL, Typescript\*, Java\*, Rust\* **Developer Tools:** Git, Github, Arch Linux, Docker  
**DBMS:** MySQL, MongoDB\* **Frameworks/Libraries:** Django, Flask, React.js, Next.js, Beautiful soup, Selenium, Node.js\* [\* familiar]

## COURSEWORK INFORMATION

File Organisation and Database Management System | Design and Analysis of Algorithms | Programming and Data Structures | Big Data Analysis | Computer Organisation Architecture | Usable Security and Privacy | Computer Networks

## POSITIONS OF RESPONSIBILITY

<b>Tech Team Sub-Head   Kshitij, IIT Kharagpur</b>	<b>[Aug'21 - Jun'22]</b>
<ul style="list-style-type: none"><li>Developed and managed the Kshitij'22 website driving <b>19,500+</b> registrations and the Admin Panel enabling efficient content management</li><li>Boosted the desktop performance on PageSpeed insights to <b>88</b> through <b>lazy loading</b> images and reducing the network payload</li><li>Automated the certification distribution process by innovating a <b>certificate generator</b> app used by 3000+ participants of Kshitij'22</li></ul>	

## EXTRA CURRICULAR ACTIVITIES

- Actively participated in the Illumination and Inter-Hall Opensoft Competition organized by TSG, IIT Kharagpur in 2022
- Spread awareness as a member of NSO Health and Fitness and learned swimming as a part of the Technology Aquatics Society