



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2026	M.TECH Dual Degree 5Y	IIT Kharagpur	7.47 / 10
2020	Class XII, BSEB	D.C Inter College, S.B.Pur	88.2%
2018	Class X, BSEB	+2 High School, S.B.Pur	80.4%

## SKILLS AND EXPERTISE

- **Programming Languages** : Java | Python | C | JavaScript (Basic)
- **Frameworks / Libraries** : Spring | Spring Boot | Hibernate | Spring MVC | Data JPA | JDBC | JUnit | Java Swing
- **Softwares / Tools** : Core Java | OOP | Java EE | Microservices | Multithreading | MySQL | Eclipse | Lombok
- **Soft Skills** : Critical Thinking | Problem Solving | Work Ethic | Mentoring | Team Work | Leadership
- **Other Languages** : HTML | CSS | SQL

## COURSEWORK INFORMATION

- **Programming** : Object Oriented Programming | Programming and Data Structures (Theory and Laboratory)
- **Mathematics** : File Organization and Database Systems | Probability and Statistics | Linear Algebra
- **Miscellaneous** : Quantitative Decision Making | Economics | Basic Electronics | Basic Electronics Laboratory | Engineering Drawing and Computer Graphics | Strategic Planning | Mineral Economics and Business

## PROJECTS

Smart Contact Manager ( Web Application ) | Spring Boot | Self Project [Dec '24 - Present]

- Developed user **authentication** features using email and password verification and integrated **Google login**
- Designed and implemented **CRUD** functionalities for contacts, leveraging **Spring Data JPA** to interact database
- Managed distinct Model, View, and Controller layers using **Spring MVC**, ensuring maintainable application
- Enabled users to send emails directly from the platform, using the **JavaMailSender** interface for email delivery
- Utilized **Hibernate ORM Module** to map database table and columns with Spring Bean Object and members

Spring Boot RESTful CRUD Application for Ticket Booking | Self Project [Nov '24 - Dec '24]

- Developed a robust **RESTful** web application using **Spring Boot**, implementing **CRUD** operations for ticket bookings
- Utilized **Spring Data JPA** to interact with a **MySQL** database, enabling smooth retrieval of ticket details
- Designed the application with a clean, modular architecture, including **Controller**, **Service**, and **DAO layers**
- Utilized **Lombok** to reduce boilerplate code and **Hibernate ORM** for mapping b/w Java objects and database tables

ATM Interfaces and Operations | Java and MySQL | Self Project [May '24 - July '24]

- Developed intuitive UIs using **Java's Swing framework**, incorporating interactive buttons, text fields, and labels
- Implemented **secure PIN-based authentication**, ensuring user accounts are protected against unauthorized access
- Managed and secured user data, transactions, and accounts using robust **SQL database**, including **MySQL**

Search and Download Images (website) | HTML, CSS and JavaScript | Self Project [May '23 - Jun '23]

- Integrated the Pexels **API** for image search and retrieval, managing **authentication** and **data parsing**
- Enabled **keyword based image search**, initiated by pressing the "Enter" key for enhanced user experience
- Implemented **lightbox** feature for image **preview** and **download**, showcasing the image and photographer's name

## AWARDS AND ACHIEVEMENTS

- Solved **650+** Data Structures and Algorithm problems on platforms like LeetCode, CodeChef, and Codeforces
- Achieved distinction in the **Pre-Regional Mathematics Olympiad 2019**, ranking among the **top 1920** nationally
- Received the prestigious **NTSE Scholarship** from NCERT, Government of India, recognizing academic excellence
- Secured **second** place in **state-level Election Knowledge Competition 2017**, by the **Election Commission of India**
- Won **second** place in **Ore-acle Quest** at MINARE 2024, hosted by NIT Rourkela's Mining Engineering Society

## CERTIFICATIONS

Data Structures and Algorithms with Java | Alpha | Apna College [May '23 - Aug '23]

- Completed the Alpha (**DSA with Java**) course at Apna College, proficient in data structures and algorithms
- Completed a **16-week intensive DSA program**, mastering topics such as linked lists, binary trees, and graphs

## POSITIONS OF RESPONSIBILITY

Coordinator Students' Welfare | Radhakrishnan Hall of Residence [Aug '23 - Apr '24]

- Served on the **Institute Welfare Subcommittee**, advocating for **600+ boarders** at Radhakrishnan Hall of Residence
- Led a team of **39 wing representatives** to enhance mental illness surveillance and awareness at a micro level

## EXTRA CURRICULAR ACTIVITIES

- Proudly represented my school in prestigious **quiz** and **essay competitions** at district, state, and **national** levels
- Developed math problem sets for primary school students as a **volunteer** with the **National Service Scheme**