

DIPAM SEN

Second Year Undergraduate, IIT Kharagpur
Computer Science and Engineering

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ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute/School	CGPA/Marks
2024 – Present	B. Tech	Indian Institute of Technology, Kharagpur	9.81/10
2024	CBSE (XII)	Amicus International School, Bharuch	98%
2022	CBSE (X)	Podar International School, Aurangabad	96.2%

AWARDS AND ACHIEVEMENTS

- Secured All India Rank 331 in Joint Entrance Exam (Advanced) 2024 among 250,000 candidates.
- Secured All India Rank 220 in Joint Entrance Exam (Mains) 2024 among 1,200,000 candidates.
- Achieved the title of Expert on Codeforces with a peak rating of 1632 (Handle: *dipamsen*)
- Attained Global Rank 40 in the Hong Kong International Math Olympiad (HKIMO) 2019 Heat Round, Secondary I Division (2nd in India).
- Awarded Gold Honor in Asia International Mathematical Olympiad (AIMO) 2019 Trials.

PROJECTS

- CPBattles**  | Node.js, React, MongoDB, PostgreSQL, CI/CD Pipelines Jun '25
- Built a full stack web app with Express backend and React frontend for realtime programming battles.
 - Integrated with Codeforces API to manage user verifications and problem submissions during battles.
 - Managed scheduled tasks using Agenda with MongoDB and persistent data storage with PostgreSQL.
 - Configured CI/CD pipelines to deploy the backend to Azure App Service.

- CV Builder**  | React, Typst, Tailwind CSS, WebAssembly May '25
- Developed a web based CV editor enabling users to create and download professional CVs in PDF format
 - Integrated Typst for high quality typesetting, running in the browser via WebAssembly.
 - Built a flexible, extensible templating system, enabling users to seamlessly switch between templates

POSITIONS OF RESPONSIBILITY

- Maintainer, IQPS**  (Contributor, metaKGP ) | Rust, Go, Python Jan '25 – Present
 - Contributed to multiple open source projects maintained by metaKGP for the student community
 - Maintainer of IQPS, a Rust web app serving previous year question papers to thousands of students.
 - Integrated Slack notifications for paper uploads and imports, enabling real-time monitoring and updates
 - Streamlined admin dashboard workflows for approving, editing, replacing and deleting papers
 - Built a data ingestion pipeline for handling large scale question paper imports, ensuring reliability
- Core Team Member, Kharagpur Open Source Society** Jul '25 – Present
 - Conducted Kharagpur Winter of Code (KWoC), a month-long program on open source with 30+ projects
 - Organized hands-on workshops and tutorials to familiarise students with Git/GitHub, Shell, and Linux.

TECHNICAL SKILLS

- Programming Languages:** JavaScript, TypeScript, Python, Rust, Go, C/C++, Bash, HTML, CSS
- Frameworks and Libraries:** React, Express, Node.js, Flask, Next.js, Axum, WebAssembly
- Technologies:** Git/GitHub, Docker, Typst, LaTeX, MongoDB, PostgreSQL, GitHub Actions

COURSEWORK

Programming and Data Structures (Theory and Lab) | Algorithms (Theory and Lab) | Systems Programming Laboratory | Discrete Structures | Probability and Statistics | Signals and Systems | Formal Language and Automata Theory* | Software Engineering* (Theory and Lab) | Switching Circuits and Logic Design*

*: Currently ongoing course