

# 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