

BORUDE HARSH PRAKASH | 22MI10022

MINING ENGINEERING (B.Tech 4Y)

EDUCATION			
Year	Degree/Exam	Institute	CGPA/Marks
2026	B.Tech. (4Y)	IIT Kharagpur	7.33/ 10.00
2021	HSC (Class 12)	Laxmanrao Apte Prashala	87.00 %
2019	ICSE (Class 10)	Colonel Parab's School	92.00 %

PROJECTS

Personal Portfolio Website | Frontend Project

Built a personal portfolio website using **React.js**, incorporating reusable components and custom CSS for a responsive, modern UI.

- Integrated interactive particle effects, typewriter animations, and 3D avatar tilts for enhanced user engagement
- Connected portfolio to GitHub, LinkedIn, Instagram, and Twitter, showcasing **real-time GitHub stats** and LeetCode performance.
- Applied SEO best practices with meta tags, structured data, and accessibility features to improve discoverability and inclusivity.
- Implemented unit tests with **React Testing Library** and optimized scroll behavior and route transitions for better user experience.

Chess Website | Backend & Real-Time Project

Developed a responsive chess game with real-time gameplay using Node.js, Socket.io, EJS, and Express.js.

- Implemented Chess.js to handle rules, validate moves, and detect game states like check, mate, or stalemate.
- Enabled real-time multiplayer gameplay and chat using Socket.io, syncing board updates and player moves across devices.
- Ensured smooth user interactions with drag-and-drop move functionality and real-time game state synchronization.

Stock Price Analysis | Quant Club | IIT Kharagpur

(Oct' 23 - Jan' 24)

Applied trading strategies to historical stock data utilizing the open-source Python framework, Backtrader.

- Extracted the minute-by-minute data of Bitcoin using **Binance API** and implemented the **RSI** strategy by optimizing parameters
- Implemented Mean Reversion Strategy using **Bollinger Bands** and **ADX** for trend signals, yielding approximately **35% profit**

AWARDS AND ACHIEVEMENTS

- Secured an All India Rank in JEE Advanced, 2022 among 2 Lakh qualified candidates conducted by Government of India
- Secured 99%ile in JEE Main, 2022 among 10 Lakh qualified candidates conducted by National Testing Agency
- Secured 2nd position in Open-IIT Case Study competition conducted by the Technology Students' Gymkhana in 2023
- Recipient of **Best Fresher 2023-24** award among 300 peers in Rajendra Prasad Hall of Residence.

POSITIONS OF RESPONSIBILITY

Student Member | Students' Alumni Cell | IIT Kharagpur

(Nov' 23 - May' 24)

Worked on 3 major fronts: Sponsorship, Event Management and Networking to ensure smooth working of Students' Alumni Cell

- Organized IIT Kharagpur's flagship event 20th Annual Alumni Meet, consisting of 15+ events with 700+ participating Alumni
- Compiled, designed, and published the comprehensive 'Institute Yearbook' for 2600 degree recipients of the batch of 2024.
- Edited and maintained the Alumni blog with a reach of over 1M viewers and participation from over 500 alumni

Technology Events Secretary | Rajendra Prasad Hall Association | IIT Kharagpur

(Oct' 22 - Apr' 24)

Worked under the Warden to assist Rajendra Prasad Hall Association in General Championship Technology

- Responsible for managing Technology Events, and 20 team captains for the General Championship Technology in 2023
- Organized introductory workshops on Supply Chain, Software Development, Data Analytics, and Hardware Modeling for 900 boarders.
- Secured 4th position in Technology General Championship competing against 23 other Halls of Residence in the year 2023...

SKILLS AND EXPERTISE

Programming Languages: C++, C, Python, HTML, CSS | **Frameworks and Platforms**: Matplotlib, Numpy, AutoCad, MATLAB **Application Softwares**: Microsoft Office Package: Microsoft Excel, Adobe Photoshop, Adobe Illustrator, Adobe Express

COURSEWORK INFORMATION

Programming and Data Structures*, Probability and Statistics, Advanced Calculus, Linear Algebra-Numerical and Complex Analysis, Introduction to Innovation and Entrepreneurship, Basic Electronics*, Electrical Technology, Mineral Economics and Business, Computational Methods and Mine Instrumentation,

* Indicates lab component

EXTRA CURRICULAR ACTIVITIES

- Selected from a pool of 1800 students for Nation Sports Organisation(NSO) Football.
- Conducted Kshitij, the techno-management fest of IIT Kharagpur as Kshitij Campus Affiliate.
- Vice-Captain of Silver winning team for Illumination & Rangoli for Rajendra Prasad Hall among 23 other Halls in 2024