

Priyanshu Raj

Adm. No. 21JE0713 +91-6204065656

✉ 21je0713@iitism.ac.in  LinkedIn



Education

IIT (ISM) DHANBAD

Bachelor of Technology in Mining Engineering (GPA: 7.73)

- **Relevant Coursework:** Machine Learning, Data Analytics

Expected May 2025

Dhanbad, Jharkhand

Experience

Self Trader

May 2024 – June 2024

- Researched Indian market and chose derivatives and options for trade.
- Analysed BankNifty on Technical analysis such as Trendlines, RSI, Fib Retracement and Volume.
- Prepared trading strategies based on Smart Money concept(SMC).
- Took trades on options and was 30% net profit on the portfolio

Projects

AI Tool for Prediction of Mine Tailings Dam Slope Stability | Machine Learning, Flac2D, Leadership

- Calculated Factor of Safety (FOS) of 767 models with varying parameters of Tailings Dams using FLAC2D.
- Designed different Machine Learning models for predicting Factor of Safety of Mine Tailings Dam and determining most accurate model.
- Designed a Web-app for users to input the parameters and check FOS of the Dam.
- Contributed in literature of the research paper by writing the ML part, providing sources for citations and graphics/flowcharts for the paper.
- Led the team throughout the research work.

Technical Skills

Languages: Python, C, C++

Tools: Trendlines, Fib Retracement, Relative Strength Index (RSI), Volume, Moving Average

Softwares: FLAC2D, Advanced MS Excel, MS Word, MS Power Point, SURPAC, Pix4D, ShotPlus

Achievements

- Finalist of Inter-IIT event POLARIS. Explored the aspects of Type-2 Civilization in Technologies and Science.
- Brought sponsorship for Khanan'22. Invited BCCL, OMC like giants in our Geo-Mining Fest.
- Brought highest sponsorship for Khanan'23. Welcomed SECL and JSW for the big events, single handedly.
- Secured top 1% in JEE(Advanced), 2021.

Social Engagements

Business Development Head: at SME IIT ISM STUDENT CHAPTER

Organizer : SRIJAN'23-The annual Cultural Fest IIT ISM DHANBAD

Volunteer: at KARTAVYA - NGO run by students of IIT Dhanbad to educate underprivileged childrens.

Organizer: Concetto'22 (Tech-fest) Khanan'22 (Geo-Mining fest) .

Sports-Engagements: Badminton , chess , cricket , table-tennis.