

Amul Kumar

Adm. No. 21154006 6367546428

✉ amul.kumar.min21@itbhu.ac.in

🌐 [linkedin.com/in/amul-kumar-6a9728227](https://www.linkedin.com/in/amul-kumar-6a9728227)

🐙 github.com/amul69906995



Education

IIT Varanasi (BHU)

Expected May 2026

Dual Degree Mining Engineering (B.Tech + M.Tech) (CPI: 8.29)

Varanasi, UP

- **Relevant Coursework:** Basic Geology , Surveying, Rock Mechanics , Fundamentals of rock Mechanics instrumentation , Ground Control , Ug Metal Mine , Ug Coal Mine, Surface Mining

Experience

summer internship at HCL (underground mining) (khetri copper mines)

Jun 2024 – july 2024

Mining Engineer

singhana, rajasthan

- **Geology:** Basic understanding of the work of a geologist, including identification of ore lenses, quality control processes, and knowledge of ore types such as CuFeS₂ (chalcopyrite)
- **Surveying:** Experience with main level and sub-level plans, ventilation plans, water pump plans, ore dumping plans, and development plans.
- **Blasting:** Learned about explosives, secondary explosion methods, and observed the process of charging and blasting a raise.
- **Drilling:** Knowledge of burn cut and ring drilling patterns, usage of Simba and ITH (drifter) for drilling, development, and roof bolting, and exposure to jumbo drilling
- **Mucking and Material Handling:** Experience with LPDT and LHD for mucking operations, understanding of ore and waste dumping points, material handling process including orebin, surgebin, feeder, crusher, disc screen, and surface material handling .

Projects

Real-Time Strata Monitoring Using Graphs | React.js, Express.js, Mongo Db, Recharts, Node.js

- Developed a data visualization dashboard using Recharts to visualize strata monitoring data.
- Visualized data in graph form for ongoing projects, providing real-time insights to improve decision-making processes. Users can search data by instrument ID and date, and set safe limits on the graph to monitor compliance and safety. Potential for extension to real-time monitoring using API data.

Technical Skills

Languages: c/c++, javascript, python, TypeScript, html,css

Technologies: React.js, , Express.js, Node.js, MongoDB, tailwindcss, Bootstrap, Tailwind

mining software (currently exploring): autocad 2d and 3d, geovia surpac

Achievements

- Led a team of four members in the prestigious Hult Prize competition.
- Achieved a top 10 finish at IIT BHU, showcasing innovative solutions and strong team collaboration.

Social Engagements

spardha-fest: Led a team of second-year students to ensure seamless and secure entry for all attendees at Sparadha Fest.

Club Member : core team member in business club in tech team

Sports-Engagements: Deadlift, chess, football.