



KUSHAL KUMAR V

Graduate Mining Engineer

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EDUCATION

Bachelor of Tech. Mining Engineering

National Institute of Technology
Karnataka(NITK), Surathkal

2025 | First Division

- Relevant Coursework:** Surface & Underground Mining Methods, Computer Applications in Mining, Mine Machinery, Mine Ventilation & Simulation, Mineral Processing, Drilling & Blasting Technology.

ACADEMIC PROJECTS

Optimal Safe Dump Distance Analysis for Open-Pit Mine

- Utilized Surpac software to conduct a comprehensive slope stability analysis for an open-pit mine, employing circular and non-circular failure equilibrium methods.
- Collaborated in a team to determine the optimal safe distance for waste dumps from the pit crest, mitigating geotechnical risks.
- Outcome:** Proposed a safety-focused dump design to minimize operational and structural hazards.

Blasting Optimization using Air Decking Technique

- Led a team to design and execute experimental blasts, comparing conventional charging methods with air decking using blast bags.
- Outcome:** Achieved a 20% reduction in explosive consumption while simultaneously improving fragmentation control, enhancing safety, and promoting more sustainable blasting practices.

LANGUAGE

- Father name:** V Pampapathi
- Languages:** Kannada, English, Hindi, Telugu
- DOB:** 19/09/2003

PROFESSIONAL SUMMARY

A results-oriented **Mining Engineering graduate** from NITK Surathkal with practical training in surface and underground mining. Possesses hands-on experience in **mine planning, drilling & blasting optimization, ventilation systems, and geotechnical analysis using industry-standard software like Surpac**. Demonstrated ability to enhance operational safety, efficiency, and cost-effectiveness through technical projects and field observations. Seeking to apply engineering expertise to challenging mining operations.

MINING EXPERIENCE & TRAINING

Training Intern

July 2024

The Singareni Collieries Company Ltd (SCCL) | Ramagundam, Telangana – UG Mining

- Observed and analyzed mechanized longwall mining operations at the Adriyala project, focusing on continuous extraction systems and productivity.
- Studied underground ventilation network layouts and their critical role in maintaining gas dilution and air quality for safety.
- Gained insights into underground mine planning, machinery utilization, and regulatory/environmental compliance protocols.

Training Intern

Feb 2023

Western Coalfields Limited (WCL) | Nagpur, Maharashtra – Surface Mining

- Acquired hands-on exposure to the complete cycle of surface mining operations: drilling, blasting, excavation, and haulage.
- Monitored the deployment and performance of Heavy Earth Moving Machinery (HEMM) for optimized material handling and productivity.
- Reviewed production planning schedules and on-site safety compliance procedures to understand key drivers of operational efficiency.

Industrial Visit

Oct 2024

Vedanta Ltd | Chitradurga, Karnataka – Opencast Metal Mining

- Surveyed open-cast mine planning methodologies, equipment deployment strategies, and integrated safety management systems.
- Observed practical applications of geological mapping, mine surveying, and environmental compliance in a large-scale metal mining operation.

TECHNICAL SKILLS

- Mining Engineering:** Mine Planning & Design, Drilling & Blasting, Ventilation Planning, Slope Stability Analysis, Mineral Processing, Longwall Mining, HEMM Operations, Surveying.
- Software:** Surpac (Geotechnical Analysis, Mine Design), MS Excel (Data Analysis), MS PowerPoint, MS Word.
- Certifications:** International Conference on Manufacturing, Fabrication, and Green Flow (ICMFGF) – 2024.