# Saurav Kumar

Roll No.: BTECH/10534/22
Production and Industrial Engineering
Birla Institute Of Technology, Mesra , Ranchi

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## EDUCATION

| Degree/Certificate | Institute/Board | CGPA/Percentage | Year |
|---|---|---|---|
| B.Tech | Birla Institute Of Technology , Mesra, Ranchi | 7.03 (Current) | 2026 |
| Senior Secondary | L.S College , Muzaffarpur | 81.00% | 2021 |
| Secondary | St. Joseph's Sr. Sec. School , Muzaffarpur | 89.6% | 2019 |

## INTERNSHIP

- **Vocational Training** *June -July 2025*
  *NTPC Sipat*
  – Studied ash handling systems at NTPC Sipat (2980 MW plant) and learned how fly ash and bottom ash are safely managed.
  – Studied High Concentration Slurry Disposal (HCSD) system for ash handling → learned how technology improves material movement, cost reduction, and sustainability.
  – Understood the boiler explosion case at NTPC Unchahar (2017) and how proper ash handling and safety checks can prevent such accidents.

## PROJECTS

– **Supply Chain Performance Optimization using ADR Methodology** *July 2025-Present*
  *Group Project*

  ∗ Applied Action Design Research (ADR) to iteratively design and improve a real-time performance monitoring system for supply chain operations.
  ∗ Focusing on identifying and tracking key supply chain KPIs such as lead time, order fulfillment, and inventory levels.
  ∗ Collaborated in a team to test solutions with case examples and suggest improvements for faster decision-making.

– **High Concentration Slurry Disposal System** *June - July 2025*
  *Personal Project*

  ∗ Contributed to understanding of modern ash management (HCSD) that reduces water use by 60–70 percent compared to traditional wet slurry disposal.
  ∗ Observed safety practices in ash dykes – compartmental filling, leak detection, and vegetation cover to prevent soil/groundwater pollution.
  ∗ Identified common operational challenges (pump load, pipeline choking) and explored preventive steps for smoother plant operation.

## TECHNICAL SKILLS

–**Programming Languages** : C++
–**Database Management**: MySQL
–**Coursework**: Supply chain and Logistics Management,Production and Operation Management,Quality Control Management,Lean Manufacturing and Six Sigma,Material Science, Work System Design
–**Miscellaneous**: Excel

## SOFT SKILLS

– Communication

– Analytical Skills

– Adaptability, Team management , Problem Solving, critical thinking

## ACHIEVEMENTS

– **Solved 300+ problems across various platforms like LeetCode, Hackerrank,gfg.**,
– **Ranked in the top 7 percent in JEE Mains Examination**,
– **Qualified NDA written exam and appeared for SSB interview at NSB Visakhapatnam**,