

ACADEMIC QUALIFICATIONS

Year	Degree	Institute	CPI/%
2021 - 2025	B.Tech, Chemical Engineering	Birla Institute of Technology Mesra	7.88
2020	Class 12 (JAC)	ST Columbas College, Hazaribagh	74.60%
2018	Class 10 (JAC)	Carmel Hindi Medium School, Giridih	87.80%

WORK EXPERIENCE

- Summer Internship - Hindalco Industries, MuriJun'23 - Jul'23
- Gained hands-on experience in **bauxite crushing and milling operations**, learning about industrial-scale material processing.

○ Conducted detailed performance analysis of milling equipment to optimize **energy consumption and process efficiency**.

○ Observed and meticulously documented process parameters for **improving alumina yield**, working closely with plant engineers.

PROJECTS

- Particle Detection Simulation using Geant4 | Course Project | Mentor: Prof. Dr Pulak DuttaJan'25 - May'25
- Developed a particle detection simulation using **Geant4**, modeling high-energy interactions with matter for physics applications

○ Successfully implemented custom detectors and sensitive regions to track particle trajectories and precise energy deposition

○ Performed data analysis and visualized results using the **ROOT** framework, ensuring accurate interpretation of outcomes

○ Carefully optimized the simulation for more realistic modeling of particle behavior in future particle detection systems
- Sales Analysis – SQL Data Analysis | Self ProjectAug'24 - Sep'24
- Performed sales data analysis using **MySQL** to extract business insights such as total orders, revenue trends, top-selling pizza types, and preferred pizza sizes

○ Used filtering, aggregation, and table joins to generate insightful reports for business decision-making
- Superstore Sales Dashboard – Power BI | Self ProjectSep'24 - Oct'24
- Designed an interactive **Power BI** dashboard to analyze Superstore sales and profitability across regions

○ Visualized category-wise trends, regional performance, and customer insights to support data-driven decisions

POSITIONS OF RESPONSIBILITY

- Resource Coordinator | Cultural Fest 2023, BIT MesraFeb'23
- Organized and managed the Cultural Fest, overseeing logistics and resources, and successfully handled over 1000 attendees

○ Managed complex vendor negotiations and resource allocation, optimizing costs and ensuring seamless execution

○ Collaborated with multiple student organizations and faculty to plan engaging activities, boosting participation rates by 30%

○ Implemented an effective scheduling system that carefully minimized overlaps and enhanced attendee experience
- Head Boy | Carmel Hindi Medium School2017-18
- Led the student body, representing peers in discussions with administration, shaping policies, and addressing student concerns

○ Organized school events and assemblies, fostering a positive culture, encouraging participation, and maintaining discipline

○ Mentored younger students, promoting leadership, teamwork, and personal growth within the school community

FUNCTIONAL SKILLS

- Project Coordination & Planning: Coordinated timelines, delegated tasks, and managed resources during technical projects and cultural fest organization involving multiple student groups.
- Sourcing & Vendor Engagement: Engaged with local vendors and service providers to manage logistics and procurement during college events, ensuring cost-effective and timely delivery.
- Analytical Thinking: Utilized Excel, SQL, and Power BI in academic and self-initiated projects to analyze data, uncover trends, and support informed decision-making.
- Team Collaboration: Worked collaboratively with faculty, peers, and external stakeholders during project execution and event planning to drive outcomes efficiently.

TECHNICAL SKILLS

Programming Languages: Power BI ,Excel, Python,MS office ,SQL  
Utilities & Libraries: NumPy,Pandas, Hint, Geant4

ACHIEVEMENTS

- Awarded **Winner** in the **Kabaddi League** during high school, showcasing leadership, teamwork, and competitive sportsmanship
- Successfully **organized a cricket tournament** with a budget of **INR 5 lakh**, demonstrating planning, coordination, and financial
- Achieved a **certificate of completion** for a **1-month summer training** at **Hindalco Industries, Muri**, gaining hands-on industrial experience