

MD MANZAR ANSARI

Chemical Engineering Graduate, BIT Mesra (2025)
Bachelor of Technology in Chemical Engineering

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Manzar Ansari

Portfolio

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, Muri** Jun'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 Dutta Jan'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 Project* Aug'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 Project* Sep'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 Mesra* Feb'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 School* 2017-18
 - 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 management skills
- Achieved a **certificate of completion** for a 1-month summer training at **Hindalco Industries, Muri**, gaining hands-on industrial experience