

KUMAR MANGALAM		Phone: 9234755686, Email: kumarmangalam.patna@gmail.com	LinkedIn: https://www.linkedin.com/in/kumar-mangalam-362a77176/	
		Portfolio: mangalam.cc	Patna, Bihar	
PROFILE SUMMARY		Mechanical Engineering graduate with a Computer Science minor, with over a year and half of experience in process control, manufacturing operations, and technical optimization using data analysis. Skilled in coding languages such as, C/C++, and Java, I am fluent in data analysis with tools like Power BI, Looker Studio, Tableau, and SQL. I am also active in competitive programming, with a keen interest in learning new technologies, and enjoy graphic designing and photography.		
EDUCATION				
B. Tech (Mechanical Engineering)		Birla Institute of Technology, Mesra, Ranchi	8.43/10 ~ 84.3%	Minor Specialisation in CSE, Graduation with Distinction.
Class XII (CBSE)		St. Michael's High School, Patna	84.60%	Student Council Member Session 2018-2019
Class X (ICSE)		St. Xavier's High School, Patna	92.33%	Best Student in English Literature Award, 1/200+ Batch of 2017
WORK EXPERIENCE/ INTERNSHIP				
JSPL	Assistant Manager	- Led a Team of 20+ Engineers & Operators to oversee daily shift operations. - Deployed in SMS, Slab Caster Operations and Caster 2 commissioning overseeing Process Control. - Commissioned JSLPs First high speed Twin Strand Slab Caster, as its Control Room Engineer. - Oversaw Data Analytics for KPI improvement & efficient reporting. Achieved Highest Casting Speed (2.4 m/Min), Longest SES Ramping Profile (980 Mins), Fastest Restranding (52 Mins) - Improved Process Definition Functions for better Quality Yield (9% yield increase YoY, 8% Scrap Reduction YoY)		
SAIL & EIL	Summer Intern	- Assisted in 3 Diesel-Electric Locomotive Maintenance (RITES) in TRM Dept. of Rourkela Steel Plant, SAIL. - Worked in Rotating Equipment Division of EIL, Delhi, studied and drafted Process Data Sheets for Procurement of Pumps.		
iQuanta	Project Management Intern	- Oversaw Youtube Video creation and editing, promotion and outreach. - Lead team for automating and optimizing WhatsApp Community of our organization & implementing result delivery optimisation.		
ACHIEVEMENTS/AWARDS				
JSPL	Employee of The Month	1/200+ Employees to receive the award in the month of April, 2024, for commissioning and of the new twin strand caster, improvement of process definition, improvement in quality and yield of production. 1/50+ Employees to receive Shabbash award for record time re-startup of production after first time capital shutdown of CCM.		
SMHS	Most Creative Student	- Created and Led first of a kind Photography and Design Society (Pixy Lens and Pixel Artists), producing 300+ creatives in the form of Banners, Posters, Flyers, Certificates over the span of two years. - Designed Jubilee Logo and Flag to commemorate Post Centenary Diamond Jubilee of SMHS and Jesuit Society.		
SOF	Zonal Gold Medal	Rank 11/ 4000+ in Zonal Level of National Cyber Olympiad (IIT KGP Khitiz) conducted by SOF.		
POSITION OF RESPONSIBILITIES				
BIT	Vice President & Co-Manager	Led a team of 30+ individuals in organizing 10+ technical events over a span of 1 year in the college, started and published bimonthly technical newsletter to promote the spirit of technical content writing among students. - Founded and served as co-manager of BITP Esports, to catch up with the rising wave of E-sports culture in the demography of Indian Youths, in 6 different competitive games, and with 40+ Esports athlete.		
BIT	Publicity and Design Head	Led a team of 50+ individuals to cater to the Annual Sports Fest requirements in the sphere of Design & Merchandising. - Successfully achieved a footfall of 20000+ in span of 3 days, 8+ Event Sponsors, 100000+ Social Media Engagements.		
SMHS	Founder and Mentor	Mentored 30+ Students in camps, and throughout the academic year towards graphic designing, photography and filmmaking. - Spearheaded teams to represent school in 4+ filmmaking and photography competition.		
PROJECTS AND PUBLICATIONS				
JSPL	Automated Dashboard	- Successfully automated reporting feature in JSPL by fetching data from SQL database in Backend on periodic bases, syncing it with cloud storage, and sending scheduled reports to senior management on timely basis without human intervention. - Used Tech Stack of node.js, SQL, python, Looker Studio, Batch Scripting.		
SELF	Tools 101	- Designed and developed custom automation tools to streamline workflows, eliminate repetitive tasks, and improve productivity. - Telegram–Google Drive File Synchronization Tool - Bulk WhatsApp Community Management Tool - Python Desktop Automation Widget - Financial PDF-to-Excel Parser with AI Engine option		
BIT	Research Paper	Wrote and Published a research paper around my college's major project, titled "Design and Analysis of Cutting Blade for Rotary Type Grass Cutters", published in IRJMETS with doi: https://www.doi.org/10.56726/IRJMETS73979		
EXTRACURRICULAR ACTIVITIES				
BIT	Core-Member (Event Management)	Served as core member of organizing committee, spearheading various teams of Sponsorship, Content, Event Management, Design and Publicity, of 4+ Major & 9+ Minor Techno Cultural Festivals.		
SPORTS	Table-Tennis Team	4th / 200+ students in Table Tennis, College Team member, played in 6+ Inter & Intra College Tournaments, 1/5 Teams in Table Tennis Team Event at Elegante IIM BG 2023.		
SOCIAL	Community Educator/ NSS	- Associated with Social Warriors NGO based out of Patna, to serve as community eductaor and delivering skills, basic education and training to underprivileged children across town 240+ hours in campaigns such as Covid Relief, Bihar Flood Relief, Pre RD Camp etc.		
SIH	Internal-Hackathons	Runner-up in in college round of SIH Hackathon 2020 (RFID based smart parking system), and 4th Position in the year 2022 (Random Encryption Generation)		
CERTIFICATIONS				
NPTEL	Steam Power Engineering IIT Guwahati	Steam Power Engineering (MOOC from IIT Guwahati 3-credit & 8 week course), centered around steam generation for power production in power plant and advanced thermodynamics, only 15 individuals certified in this course.		
LinkedIn Learning	The Sales Management Association	Sales Operations Foundations by the Sales Management Association and LinkedIn. Optimizing sales function through forecasting, pipeline management, strategic alignment, and data-driven enablement.		
	Jack Welch Management Institute	Operations Management Professional Certificate by Jack Welch Management Institute. Lean principles, process improvement, supply chain management, and quality control.		
	Microsoft	Career Essentials in Data Analysis by Microsoft and LinkedIn. Data analytics and BIT Tools, with data visualization.		
COURSE RA	Material Science ASU	Material Science Specialization coursework on coursera hosted by Arizona State University, consisted of 4 different certifications - Phase Diagrams Hardening, Polymers, Properties Electrical Properties and Semiconductors Ceramics and Composites (Refractories)		
	Statistics Stanford Online	Non-credit course with basics to intermediate level of statistics centred around - Quantitative Research Statistical Hypothesis Testing Statistical Analysis Data Analysis Statistical Modeling		
	Wind Energy Eng. DTU Online	Non-credit course with introduction to engineering behind wind energy harvesting centred around - Sustainable Engineering Forecasting Failure Analysis Structural Analysis Engineering Calculations Environmental Monitoring		
ISRO	Satellite Photogrammetry IIRS	A 5 Day workshop based course conducted at IIRS Outreach Centre at BIT Mesra, centred around Introduction and Application of Satellite Photogrammetry and its application in terrain mapping.		