



AYUSH NAYAN | 23CL60R05

Indian Institute of Technology Kharagpur

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Percentage
2023	M.Tech, Earth System Science and Technology	Indian Institute of Technology Kharagpur	8.78 / 10
2021	B.Tech, Mechanical Engineering	Sikkim Manipal Institute of Technology, Sikkim	9.12 / 10
2017	Class XII, H.S.C.	Techno India Group Public School, Siliguri	69%
2015	Class X, S.S.C.	Manav Mangal School, Panchkula	9.60 / 10

EXPERIENCE

HVAC Engineer and Site Manager | Sigma Airtech Engineers Pvt. Ltd. | Mr. Abhinesh Gora [Aug'23 - Nov'23]
Surveying-Planning-Installing-Maintenance of HVAC system of Operation Theatres at SGT University, Gurugram and NIH, New Delhi
o Management of staff as well as assigning duties and tasks on daily basis and inspection of smooth flow of work at multiple sites

PROJECTS

Spatio - Temporal variations of SST in the Bay of Bengal | Design Lab | Dr. C. Shaji [Aug'23 - Nov'23]
Analysed 82 years of high resolution climatology sea surface temperature data to understand extreme weather anomalies
o Demonstrated the affect of SST of Bay of Bengal over the Indian Monsoon over 8 decades by various methods using MatLab
o Verified the cyclic variation of SST with a trend of constant increase in the temperature post industrial revolution in the Bay of Bengal

INTERSHIPS

HVAC Duct Designing and Drafting | Sigma Airtech Engineers Pvt. Ltd. | Mr. Abhinesh Gora [Jan'21 - Apr'21]
Engineered the optimum duct sizing based on the heat load calculation which differs according to the location and purpose of the site
o Designed various schematics for efficient air duct systems for central air conditioning using AutoCAD and Revit for ESIC hospital, Patna

Chassis Designer | Raizada Infratech Pvt. Ltd. | Mr. Manish Kumar [Oct'20 - Dec'20]
Conceptualized the framework for a compact electric bike with multiple utilities which is safe and durable under difficult terrains
o Iterated a lightweight chassis which can endure heavy weight while maintaining performance using Catia V5 and Solidworks

CERTIFICATIONS

The Data Science Course: Complete Data Science Bootcamp | Complete Data Structures and Algorithms Course | Project Management | Catia V5 & Ansys | Arduino & C Programming | Life Cycle Assessment (LCA)

SKILLS AND EXPERTISE

- o **Programming Languages:** Python, SQL, C++, C | **Frameworks and Libraries:** Numpy, Pandas, Scikit-Learn, Matplotlib
- o **Other Softwares:** MATLAB, Notion, Catia V5, AutoCAD, Solidworks, Ansys, Creo, Cadian

COURSEWORK INFORMATION

Core Subjects: Satellite Remote Sensing | Geophysical Fluid Dynamics | Global Climate Change & Risk Assessment | Coastal Process
Computational: Probability and Statistics | Calculus | Computer Programming | Data Analytics | Simulation Lab | Computational Methods

POSITIONS OF RESPONSIBILITY

Secretary Technology | MMM Hall Council, IIT KGP [Sep'23 - ongoing]
Pt. Madan Mohan Malaviya Hall of Residence is the **Highest Boarders capacity hall with 2100 students of IIT Kharagpur.**
o Conducting and organising Seminars as well as events of Technology-Business Quiz, Olympiads where students showcase their knowledge.

Mess Committee member | MMM Hall Council, IIT KGP [Sep'23 - ongoing]
o To Ensure the food hygiene, quality control and least food wastage by regularly updating the mess menu and regular kitchen inspectioning

Volunteer | Rangoli | Illumination | IIT KGP [Nov'23]
o Crafted a 21' x 28' rangoli scenery and secured Second Position in an Intrahall Rangoli competition at the auspicious occasion of Diwali

General Secretary | Mechanical Department Council (MEDUSA), SMIT [May'20 - Jul'21]
o Organised Council Meetings, Prepared monthly update reports and served as a communication link between council and administration.

Programme Chairperson | Motorsports Club, SMIT [May'20 - Jul'21]
o First club of SMIT which focuses on the delivering automotive knowledge via various seminars given by experts and conducting competitions.

Department Representative | Mechanical Department, SMIT [May'18 - Jul'20]
o Represented the department during council meetings and sharing the concerns and feedback of students for 2 consecutive years.

AWARDS AND ACHIEVEMENTS

- o Secured All India Rank of 881 in GATE XE, 2023 with a percentile of 92.1 (out of 11,258 candidates).
- o Represented Mechanical Department secured First position and recieved a **Gold Medal** at Inter-Departmental **Cricket Tournament**

EXTRA CURRICULAR ACTIVITIES

Cooking | Anime | Volleyball | Formula 1 | Online Gaming | Cricket | EMCEE