AYUSH NAYAN | 23CL60R05

EARTH SYSTEM SCIENCE AND TECHNOLOGY

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	M.TECH	IIT Kharagpur	8.78 / 10
2021	B.TECH, Mechanical Engineering	Sikkim Manipal Institute of Technology, Sikkim	9.12 / 10
2017	H.S.C.	Techno India Group Public School, Siliguri	69%
2015	S.S.C.	Manav Mangal School, Panchkula	9.6 / 10

WORK EXPERIENCES

HVAC Engineer and Site Manager | Sigma Airtech Engineers Pvt. Ltd. | Mr. Abhinesh Gora [Jun'21 - Jul'22]

Surveying-Planning-Installing-Maintenance of HVAC system of **Operation Theatres** at SGT University, Gurugram and NIH, New Delhi
- Management of staff as well as asigning 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 climatolgy sea surface temperature data to understand extreme weather anomalies
- Demonstrated the affect of SST of Bay of Bengal over the Indian Monsoon over 8 decades by various methods using MatLab
- Verified the cyclic variation of SST with a trend of constant increase in the temperature post industrial revolution in the Bay of Bengal

INTERNSHIPS

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
- 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
- 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 Science Training: Mathematics, Statistics, Python, Advanced Statistics in Python, Machine &Deep Learning

Complete Data Structures and Algorithms Course
- Learnt, implemented, and used different Data Structures, Algorithm, Recursion and process data efficiently for problem solving

Project Management
- Understanding Engineering Project Management: Initiating, Planning, Scope, Time, Cost Management, Risk, Quality, Teams &Management

Arduino & C Programming
- Honing skills to build real-world projects that interact with the physical world through sensors and actuators
- Dived deeper into electronics and embedded systems by acquring the C programming skills and exploring other microcontrollers

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

SKILLS AND EXPERTISE

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

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
- 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]
- Ensuring the food hygiene, quality control and least food wastage by regularly updating the mess menu and resular kitchen inspectining

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

COMPETITION/CONFERENCE

Cricket Tournament
- 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