Sadeep kumar

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RESUME SUMMARY

I am a skilled Mechanical Engineering student at IIT Roorkee with expertise in data analytics, Excel, and marketing. Passionate about sustainable solutions, I have successfully led projects optimizing supply chains and investigating material behaviors. Eager to contribute to innovative engineering solutions in a dynamic environment.

PERSONAL DETAILS

Current Location	Gopalganj
Date of birth	January 25, 2001
Gender	Male

EDUCATION

Graduation	B.Tech/B.E. (Mechanical) Indian Institute of Technology, Roorkee with Score 5.523%
Class XII	Bihar with 80.8% in 2019 Achievements: School topper
Class X	Bihar with 72% in 2017
Certification Course	Executive and DCS Certificate- NSS 2022-23 Managers National Social Summit'23 (January 2023 - Present)

INTERNSHIPS AND PROJECTS

Internships

IRIS ECOTECH PRIVATE LIMITED (Duration June 2024 - July 2024)
I went to the waste management plant for field research. Where I found this following things: They want cheap and best technology to differentiate plastic and metal from its mixture. Also want the way for the large and constant supply of e-waste. How they can form balls of different types of plastic which upgrade their plastic quality. •They want a way to use inert segregated portion which is around 12 to 15 percent.

Projects

Premixed flame speed for NH3-C7H16 mixtures with various EGR at engine conditions (Duration September 2024 - November 2024)
Simulated the Laminar Flame speed, pressure, temperature and specific volume and tracked their variation for equimolar Ammonia-Heptane mixture
Conducted the study for equivalence ratio, EGR and compression ratio in the range 0.6-1.4,0%-30% and 6-14 respectively

Flow control using differentiable solver (Duration August 2024 - May 2025)
Use phiflow solver to solve the burger equation in space domain. Reduce the drag force on air plane wing which help save millions of dollars.
Skills used - Python,CFD Modelling

Investigating the interplay between Volumetric change, dislocations and atomic potential energy in A (Duration January 2024 - May 2024)
Explore the relationship between volumetric change, dislocations (defects), and atomic potential energy in Aluminium crystals, inspired by observations from shock simulations. Using Atomsk I constructed crystal structures of aluminium with various islocations, representing different defect configurations.

Supply Chain optimization of titan watch company India | Indian Institute Of Technology Roorkee (Duration August 2023 - December 2023)
Created a warehouse location for optimizing Supply chain for Titan company. I was responsible for the ideation and data collection of this project and meetings.
Skills used - Python,Data Modeling

Sustainability in the plastic industry & Extended producers Responsibility | (Duration August 2023 - October 2023)
Created an application for Extended plastic producers. Using generative AI to develop frontend interface.
Skills used - Prompt Engineering

SKILLS AND ACHIEVEMENTS

Skills	data analytics,ms office,excel,marketing,Power BI,Power Bi Analyst,Power Bi And Tableau Developer

Language	Hindi (Both), English (Both)
Awards & Honor	Best member of the cell,NSS IIT ROORKEE