

PROFESSIONAL SUMMARY

A dedicated and enthusiastic Chemical Engineering undergraduate with hands-on experience in industrial internships, research projects, and content development. Seeking a challenging chemical or environmental engineering role to apply theoretical knowledge and enhance practical skills for innovative solutions.

WORK EXPERIENCE

Tridapro Solution Pvt. Ltd.

Research Associate – Academia | July 2024 –Feb 2025 | Hyderabad

- Delivered curriculum-aligned instruction in Chemistry and Mathematics with a strong focus on chemical concepts, industrial applications, and engineering fundamentals.
- Developed subject-specific academic content including concept-driven worksheets, application-based practice sets, and assessment modules emphasizing foundational principles of chemical sciences and process engineering.

Lupin Ltd.

Intern | June – July 2023 | Mandideep

- Participated in plant operations including the distillation unit.
- Gained hands-on experience in manufacturing processes and unit operations.

Naveen Fluorine International Limited (NFIL)

Intern | Jan – Feb 2023 | Dewas

- Assisted in R&D for developing new fluorine-based chemical compounds.
- Operated reactors and distillation units for chemical production processes.

Tera Green Technologies Pvt. Ltd. (OSTP)

Intern | Sep – Oct 2022 | Kolkata

- Contributed to sustainable development strategy and operations.
- Identified areas for environmental improvement and innovation.

RESEARCH PROJECTS

1. Preparation of Chitosan and Its Applications | May 2023

- Developed chitosan from chitin and analyzed its applications in agriculture, food, and medicine.
- Emphasized the utility of biopolymers in sustainable solutions.

2. Removal of Malachite Green Dye using Low-Cost Dung-Based Activated Carbon | Oct 2023

- Created activated carbon from cow dung and studied its efficacy in dye removal.
- Achieved 99.9% MG removal using CDAC (100 ppm, pH 1.5–7.0, 2g/L dose, 120 min), demonstrating its effectiveness as a potential adsorbent for dye removal from aqueous solutions.

SKILLS

Technical skill

- Chemical Process Optimization
- Environmental Impact Assessment
- Waste Management Techniques
- Sustainability Practices
- Research Methodologies
- Industrial Safety Standards

Soft skill

- Communication
- Time Management
- Project Management
- Adaptability
- Leadership
- Teamwork
- Public Relations
- Analytical Thinking

+91-7559395018

Sanikad199@gmail.com

Amravati, Maharashtra

sanika-deshmukh-939s18

EDUCATION

B.Tech in Chemical Engineering

Maulana Azad National Institute of Technology (MANIT), Bhopal | 2020 – 2024

HSC (Class XII)

Smt. Jijabai Hanumantrao Deshmukh Jr. College, Jarud (Amravati Board) | 2020

AREA OF INTEREST

- Environmental Engineering
- Research & Development
- Product Development
- wastewater treatment
- separation process
- Process Engineering
- Biochemical Engineering
- Pharmaceutical Engineering
- Food and Beverages Industry

LANGUAGES

- English
- Hindi
- Marathi

ACHIEVEMENTS

- Runner-up, District Level Debate Competition
- Participant, International Conference on Sustainable Energy and Environment