VEDANT KAMBLE

CHEMICAL ENGINEER

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EDUCATION

Vishwakarma Institute of Technology 2023-2027

Batchlor of Technology in Chemical engineering
Vishwakarma Institute of Technology Pune,
Maharashtra - 411037

SKILLS

- Aspen Plus (Basic)
- MS-Excel (Basic)
- Mass Balance Calculations
- Heat Exchanger Systems
- Wastewater Treatment Processes
- Python (Basic)
- Data Analysis & Visualization
- Basic Machine Learning Concepts
- Strategic Communication
- Problem Solving & Critical Thinking
- Cross-functional Teamwork & Collaboration

CERTIFICATIONS

- Industrial Project Certified (ProBurgeon Pvt. Ltd.)
- Udemy Aspen Plus Certification

LANGUAGES

- Marathi
- Hindi
- English
- German

SUMMARY

Fresher B.Tech Chemical Engineering student passionate about process engineering, sustainability, and industrial innovation. Experienced in applying technical knowledge to real-world engineering challenges with strong communication and leadership skills developed through academic collaborations and campus leadership.

WORK EXPERIENCE

Progressed through leadership roles at Vishwakarma Institute of Technology, Pune, starting as a Volunteer (Oct 2023 - May 2024) assisting in the coordination, execution, and student engagement of campus sports and activities. Advanced to Executive Sports Coordinator (July 2024 - May 2025), where responsibilities included managing sports events, boosting student participation, and guiding junior volunteers through successful event execution. Ultimately served as Executive Sports Secretary (July 2025 - May 2026), leading major sports programs, managing operational resources, streamlining team communication, and analyzing event performance trends to improve future institutional initiatives.

PROJECTS

1. **Enhancement of Heat Transfer Using Nanofluids in Heat Exchangers (Industrial Project - ProBurgeon Pvt. Ltd.)**
- Investigated the impact of nanofluids on thermal efficiency and heat transfer characteristics in heat exchanger systems.
- Evaluated industrial applications of nanofluids to improve overall energy efficiency and system performance.

2. **Wastewater Treatment by Advanced Oxidation Process (Hydrodynamic Cavitation)**
- Studied hydrodynamic cavitation for advanced oxidation-based treatment, focusing on sustainable industrial wastewater management.
- Analyzed treatment efficiency for dye removal and successfully measured reductions in BOD and COD levels.

3. **Prediction of Activity Coefficient Using Machine Learning**
- Developed predictive machine learning models using thermodynamic datasets to improve accuracy in chemical engineering calculations.
- Handled data preprocessing, model training, evaluation, and result visualization using Python.