



Niranjan Jangir

Roll No.:B21CH021

B.Tech

Chemical Engineering

Indian Institute Of Technology Jodhpur

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (ChE)	Indian Institute of Technology Jodhpur	8.54	2021-Present
Senior Secondary	RBSE	98.20%	2020
Secondary	RBSE	97.50%	2018

EXPERIENCE

- IIChE Student Chapter IITJ** Aug 23 - Present
Technical Head Jodhpur
 - Designing and maintaining all the technical aspects of the IIChE Student Chapter IITJ
 - Mentoring other members of the technical team
- Chegg India** Mar 23 - Present
Subject Matter Expert Freelance
 - Bringing my expertise in Physics to assist students worldwide in their academic journey
 - Providing comprehensive solutions to complex physics problems

PROJECTS

- Flooding detection using machine learning** Oct 23 - Nov 23
Finding and implementing appropriate algorithm for flooding detection in distillation columns
 - Tools & technologies used:** Python, reinforcement learning
- Thermodynamic consistency calculations for methanol-water electrolyzer** Nov 23
Calculations for thermodynamic consistency test using python
 - Calculated activity coefficient and change in excess free energy
 - Implemented thermodynamic consistency test using python
- Electronic Health Record** Jan 23 - May 23
Digitalization of Primary Health Center at IIT Jodhpur
 - Tools & technologies used:** HTML, PHP, CSS, JavaScript, MySQL
 - Worked under the supervision of Prof. Anil K Tiwari (IIT Jodhpur)
- Spotify recommendation algorithm visualizer** Dec. 2022
Collaboratively developed a web app with my friends to demonstrate Spotify's music recommendation algorithms Github
 - Tools & technologies used:** ReactJS, CSS, Django/Python

KEY COURSES TAKEN

- Introduction to Machine Learning (9/10), Linear Algebra and Differential Equations (10/10), Fluid Mechanics (8/10), Engineering Mechanics (9/10), Mass Transfer (10/10), Chemical Reaction Engineering (9/10), Signals and Systems (10/10), Molecular Engineering (9/10), Corrosion (10/10), Chemical Engineering Thermodynamics (9/10), Heat Transfer(8/10), Scientific Computations (10/10)

TECHNICAL SKILLS

- Programming:** C, C++, Python, MATLAB
- Tools & OS:** Git & Github, Jupyter Notebook, Google Colab, Linux, Windows, Postman
- Libraries/Frameworks:** Pandas, Numpy, JQuery, Tailwind, Bootstrap
- Web Skills:** HTML, CSS, JavaScript, ReactJS, ExpressJS, NodeJS

ACHIEVEMENTS

- Department rank 2nd** at Department of ChE IIT Jodhpur 2023
- Secured 1st Position** Inter Departmental General Championship'23 Hackathon 2023
- GeeksforGeeks** Campus rank 42 out of 1730+ registered geeks, **profile** 2023
- Completed** Government of India's AI For India 2.0 program 2023
- JEE Advanced 2021** Qualified in the top 1% among 1.16 million aspirants 2021

POSITIONS OF RESPONSIBILITY

- Department Executive**, Department of Chemical Engineering, IIT Jodhpur Oct 22 - Jul 23
- Assistant Head Coordinator**, Indian National Academy of Engineering Youth Conclave 5.0 Aug 22 - Sep 22