



Raj Khedkar

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Chemical Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech (Chemical)	Indian Institute of Technology, Jodhpur	7.25/10.0	2023 - 2027
Senior Secondary	CIS Baramati, Maharashtra HSC Board	84%	2023
Secondary	VPMS Baramati, CBSE Board	96%	2021

EXPERIENCE

Undergraduate Researcher

Under Prof. Lawqueen Kanesh, Dept. of CSE

IIT Jodhpur

[Aug'24 - Dec'24]

- Explored algorithmic strategies in graph theory for Connected Vertex Cover problems.
- Gained experience in computational complexity and paper analysis, building analytical and problem-solving skills applicable in backend systems.

PROJECTS

- Personal Portfolio Website** | Frontend Development [May'25]
HTML, CSS, JavaScript, Responsive Web Design Live Website
 - Designed and developed a personal portfolio website to showcase skills, projects, and resume, following modern UI principles and responsive design.
 - Implemented a clean, component-based structure for maintainability and scalability.
- Japanese Hiragana Quiz** | Interactive Web App [March'25 - April'25]
React, Vite, JavaScript (ES6+), HTML5, CSS3, React Hooks, LocalStorage Live Website
 - Built a responsive Hiragana quiz app using React, Vite, and JavaScript, featuring multiple-choice questions, timers, and real-time feedback.
 - Implemented a local leaderboard with persistent best scores using Web Storage API, and designed accessible UI with keyboard navigation.
 - Structured the app with modular, reusable components and used React hooks for efficient state and UI management.
- CDN Optimizer using Skip Lists** | System Architecture & Backend Development [Jan'25 - April'25]
C++, Qt Framework, Skip Lists, GUI GitHub Repo
 - Developed a simulation for location-aware CDN server using skip list logic for proximity-based node selection.
 - Designed a custom GUI using Qt showcasing efficient data structure design and real-time rendering.
- Time Series Forecasting with ARIMA and LSTM** | AI/ML Development [Aug'24 - Dec'24]
Python, Time Series Modeling, NumPy, Statsmodels Github Repo
 - Analyzed 397 months of data and implemented forecasting models using ARIMA and LSTM.
 - Used Matplotlib and Statsmodels to compare predictions; automated workflows via Colab + AI tool support.

RELEVANT COURSEWORK

Data Structure and Algorithms, Introduction to Machine Learning, Probability Statistics and Stochastic Processes, Introduction to Computer Science, Signals and Systems

TECHNICAL SKILLS

- Programming:** JavaScript, Python, C/C++, HTML, CSS, SQL
- Libraries/Frameworks:** React, Node, Vue.js, Vite, Pandas, NumPy, LocalStorage, Scikit-learn, TensorFlow
- Tools & OS:** Git, GitHub, Google Colab, Jupyter Notebooks, Qt, Windows

POSITIONS OF RESPONSIBILITY

- Secretary**, Volleyball Society IIT Jodhpur [April'25 - Present]
 - Led volleyball society operations, organized practices/matches, and served as liaison between sports office and members.
- Assistant Head**, Prometeo IIT Jodhpur [Oct'24 - Jan'25]
 - Managed technical festival logistics for 1000+ attendees and led a team of 15 volunteers, implementing efficient task tracking system.