SHARANA GOUDA LAKSHETTY

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○ **GitHub**

EXPERIENCE

Research Intern
IIT Jodhpur(Prof.Natasha Thoudam)

📅 January 2025 - April 2025

- Designed and developed a responsive, research-focused website to showcase the lab's projects and publications in the field of comic studies.
- Collaborated with faculty and student teams to organize content, implement intuitive UI/UX, and maintain academic alignment.
- Tech stack used: HTML, CSS, Tailwind CSS, JavaScript, and React.js to build a modern and user-friendly platform.
- GitHub Repository: Comic Studies lab Platform

Research Intern
IIT Jodhpur(Prof.Hrishikesh)

📅 August 2024 - November 2024

- Simulated tumor growth using continuum models in COMSOL to analyze nutrient diffusion and tissue deformation in the 2D and 3D domains.
- We explored isotropic and anisotropic diffusion to study radial expansion, concentration gradients, and dual tumor seed interactions.

PROJECTS

JARSafari - Campus Navigation App
Course Project

- Developed a personalized navigation app for the IIT Jodhpur campus with features such as multi-stop route planning, live GPS tracking, and time-aware location suggestions.
- Integrated efficient pathfinding using Dijkstra algorithm in OpenStreetMap (OSMR) data, optimizing performance with adjacency lists and trie-based autocomplete.
- Achieved real-time performance with 40% faster route generation and integrated a responsive user interface using React Native and OpenStreetMap routing.
- Tech stack used: Tailwind CSS, JavaScript and React-Native.
- GitHub Repository: JARSafari

Equation Solver
Course Project

- Built a C program to solve linear (1-variable, 2-variable), quadratic, and 3-variable equations.
- Integrated file input/output for reading and solving equations automatically.
- Designed a user-friendly menu system with robust solution handling (real, infinite, or no solutions).
- GitHub Repository: Equation Solver

EDUCATION

B.Tech in Chemical Engineering
IIT JODHPUR

📅 August 2023 - Present   CGPA:7.10

Class XII
Narayana Junior College

📅 March 2023   96.60%

Class X
Appa Public School

📅 March 2021   78.40%

SKILLS

- **Programming Languages:** C, C++, Python
- **Web & Mobile Development:** HTML, CSS, JavaScript, React.js, React-native, Tailwind CSS
- **Libraries & Frameworks:** NumPy, Pandas, Matplotlib, Scikit-learn
- **Tools:** Git, GitHub, VS Code, LaTeX
- **Soft Skills:** Problem Solving, Communication, Adaptability, Time Management

COURSEWORK

- Data Structures and Algorithms(**Grade: A**)
- Introduction to Computer Science
- Introduction to Machine Learning
- Probaaility, Statistics and Stochastic Processes
- Linear Algebra and Differential Equations

POSITION OF RESPONSIBILITY

- Assistant Head at E-Cell, IIT Jodhpur – helped organize key events, assisted in planning and coordination, and contributed to promoting entrepreneurial initiatives on campus.

ACHIEVEMENTS

- Achieved top 1.5% in JEE Advanced and top 4% in JEE Main among 1.2M+ candidates.