

Ritul Mamdapur

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Education

KLE Technological University, Hubli
Bachelor of Computer Applications (GPA: 9.4/10)

2025 (Expected)

Relevant Coursework

- Machine Learning
- Database Management Systems
- Big Data Analytics
- Data Structures and Algorithms
- Computer Networks
- Operating Systems

Skills

Languages: Python, JavaScript, C++, C, Java

Tools: Visual Studio Code, Google Colab, Overleaf, Excel, PowerPoint, Git.

Technologies/Frameworks: Numpy, Pandas, Node.js, React, Express, SQL, MongoDB, Docker, GitHub, Jenkins, Maven.

Soft Skills: Presentation Skills, Teamwork, Time Management, Leadership Skills and Critical Thinking

Internship Experience

Pravinya Infotech

Feb 2024 – July 2024

Machine Learning Intern

- Worked as a machine learning research intern.
- Built a predictive model using machine learning and metaheuristics for workplace success prediction based on personality traits.
- Used ACO and GA to improve interpretability and performance of Random Forest Model.
- Authored a research paper accepted and presented at the ACOIT 2024 Conference.

Projects

Recipe Application

April 2024

- Developed a recipe application utilizing an external API using MongoDB, Express, Node, and React.
- Worked on backend and user authentication using JavaScript and its frameworks.
- Added functionality for users to add and save their recipes.

Interactive Online Chess Game

September 2024

- Developed an interactive chess game using React, JavaScript, and Chess.js, implementing real-time gameplay and board updates.
- Integrated WebSocket-based communication for seamless two-player interactions, move synchronization, and game state management.
- Implemented player-specific board orientation, turn indication, and piece movement validation for an engaging user experience.

Research Experience

Lunar Path Optimization Project

Aug 2024 - Sept 2024

- Conducted research on path optimization using Particle Swarm Optimization (PSO), Ant Colony Optimization (ACO), and Differential Evolution (DE).
- Analyzed the efficiency of these algorithms in lunar exploration, focusing on their ability to navigate challenging terrain.