

RAHUL DASHARATH MADARI

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SUMMARY

Computer Science (Data Science) undergraduate who likes figuring out how things work by building them — end to end, not just the easy parts. Comfortable across the stack, from front-end interfaces to back-end logic to the data underneath it, and quick to pick up whatever a project calls for next. Still learning, still curious, and drawn to teams where I can contribute early while growing fast. Looking for an internship or entry-level opportunity to put that mindset to work on real problems.

EDUCATION

Bachelor of Engineering, Computer Science Engineering (Data Science) CMR Institute of Technology, Bengaluru, Karnataka CGPA: 7.14 / 10	<i>Graduating 2027</i>
Pre-University Education (PCMC) MDR PU Science Residential College, Koppal, Karnataka 89.33%	<i>2023</i>
Secondary Education (Class X) New Brilliant School, Bengaluru, Karnataka 80.8%	<i>2021</i>

TECHNICAL SKILLS

- Programming Languages: Python, C
- Web Technologies: HTML, CSS, JavaScript, React.js, Bootstrap
- Databases: MySQL, MongoDB, PostgreSQL
- Development Tools: Git, GitHub, Docker, VS Code, Jupyter Notebook
- Data Analysis & Visualization: SQL, Excel, Tableau, Power BI
- Frameworks: React.js, Node.js
- Concepts: Data Analysis, Machine Learning Basics, Software Development

PROJECTS

Areca Auction Platform — Real-Time Bidding with Blockchain Integration

- Built a hybrid auction platform connecting farmers and buyers, combining a fast off-chain bidding layer with on-chain settlement on Ethereum for tamper-proof records.
- Implemented real-time bidding with Socket.IO and atomic MongoDB updates to prevent race conditions on concurrent bids across multiple auctions.
- Developed a Solidity smart contract using a reentrancy-safe pull-payment pattern for on-chain bid settlement and refunds, integrated via ethers.js and MetaMask.
- Wrote 74 backend tests (Vitest, in-memory MongoDB) running automatically via GitHub Actions CI; containerized the full stack with Docker Compose for one-command setup.

Tech Stack: React, Redux Toolkit, Node.js, Express, MongoDB, Socket.IO, Solidity, Hardhat, Ethereum, ethers.js, JWT, Docker, GitHub Actions

Hospital Administration Management System (HAMS)

- Developed a web-based system to manage patients, staff, appointments, wards, beds, inventory, and billing.
- Built a dashboard surfacing patient count, appointments, revenue, and bed availability in real time.
- Implemented CRUD functionality to add, edit, search, and manage 500+ records with appointment scheduling and status tracking, plus recurring reports for finance, inventory, and ward usage.

Tech Stack: HTML, CSS, JavaScript, Node.js, Express.js, PostgreSQL, Chart.js, Docker, Git/GitHub, JSON

Online Quiz Application (MERN Stack)

- Built a full-stack quiz application with user authentication, account management, and profile pages.
- Added multiple themes, quiz categories, and API-based question sourcing, with a scoring engine for result tracking and quiz history.

Tech Stack: MongoDB, Express.js, React.js, Node.js, REST APIs, Git/GitHub, JSON

Movie Review Website

- Built a movie review platform using Node.js and MongoDB covering 100+ titles, with search, favorites, and watchlist features.
- Designed a responsive, dark-theme UI and integrated a third-party API for live ratings, improving page load speed across devices.

Tech Stack: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, TMDB API, Git/GitHub, JSON

CERTIFICATIONS & ONLINE COURSES

- Career Essentials in Generative AI - Microsoft & LinkedIn
- AI on Jetson Nano - NVIDIA
- Learning Full Stack React - Infosys
- Prompt Engineering: How to Talk to the AIs - LinkedIn Learning
- GenAI Powered Data Analytics Job Simulation - Tata (Forage)
- Divide and Conquer, Sorting and Searching, and Randomized Algorithms - Stanford University (Coursera)

HACKATHONS & EXTRACURRICULAR ACTIVITIES

- Proposed an agentic AI-based healthcare provider data validation solution using AI and automation; designed a multi-agent workflow to improve provider data accuracy and reduce manual effort.
- Attended an AI/ML webinar on Face Recognition Attendance Systems using Python - SkillEcted (2025).
- Represented at the District Level in Kabaddi (2022).

AWARDS & ACHIEVEMENTS

- Winner, School-Level Essay Competition - TATA (2020)