

Mahesh Khatawate

+91 7829024440 | maheshkhatawate0629@gmail.com | linkedin.com/in/mahesh | github.com/MaheshKhatawate

EDUCATION

Chinmaya Vidyalaya

Hubli, Karnataka

SSLC | 96.32% | 2021

Dr. R.B. Patil Mahesh PU College

Hubli, Karnataka

PUC (Science) | 92.16% | 2021 – 2023

KLE Technological University

Hubli, Karnataka

Bachelor of Engineering in Computer Science and Engineering | CGPA: 9.27 | Sep. 2023 – Present

EXPERIENCE

Academic Research Project

June 2025 – Jan. 2026

Edge AI

KLE Technological University

- Conducted literature survey on KG-RAG systems for multi-hop educational question answering.
- Identified retrieval precision limitations in traditional RAG pipelines.
- Optimized retrieval by selecting top-15 passages and re-ranking to top-6 using knowledge graph structure.
- Improved contextual grounding for multi-hop reasoning in educational QA systems.

PROJECTS

Course Selling Backend API | *JavaScript, ExpressJS, NodeJS, JWT, Mongoose*

- Built a RESTful backend for a course platform with JWT authentication and course management APIs.
- Implemented secure user/admin authentication using JWT.
- Developed CRUD APIs and modular architecture using routes, models, and middleware.
- Validated API endpoints using Postman and implemented centralized error handling for reliable client-server communication.

Ecommerce Prototype | *ReactJS, NodeJS, ExpressJS, MongoDB*

- Developed a React frontend integrated with authentication-enabled backend APIs.
- Implemented login/signup for admin and user roles with secure REST API communication.
- Designed reusable React components for a responsive and maintainable user interface.
- Implemented protected routes to restrict unauthorized access to authenticated pages.

Mirage – AI Research Workspace | *ReactJS, ExpressJS, FastAPI, MongoDB, Docker*

- Built an AI-powered workspace for document chat, knowledge graphs, and PDF insights.
- Implemented OCR, chunking, embeddings, and a RAG-based retrieval pipeline.
- Integrated LLM APIs to generate context-aware responses using retrieved document embeddings.
- Containerized the complete multi-service architecture using Docker Compose for reproducible deployment.

ACHIEVEMENTS

Competitive Programming | Profile

- Solved 300+ problems across Codeforces, LeetCode, and GeeksforGeeks.
- Codeforces Rating: 1162.

HackArena26 Winner

- Won HackArena26 among 132 participating teams and qualified for the Top-50 offline finals.
- Built an automation workflow for patient management, appointment scheduling, and treatment tracking.

TECHNICAL SKILLS

Languages: C/C++, JavaScript, TypeScript, HTML/CSS

Frameworks: React.js, Node.js, Express.js, Tailwind CSS

Databases: MongoDB, SQL

Core Concepts: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, OOPs

Tools: Git, GitHub, Postman, VS Code, GitHub Copilot