

Mrinali Charhate

Mumbai, India

mrinalicharhate@gmail.com +91 8104158875 **Portfolio:** mrinalicharhate.com **LinkedIn:** Mrinali Charhate

Education

Vellore Institute of Technology, Vellore

2023 – Present

BTech in Computer Science and Engineering (Information Security)

- CGPA: 9.01/10.0

Apeejay School Nerul

2020 – 2023

Secondary Education

Experience

AI-ML Intern

Mumbai, Maharashtra

Reliance - New Energy

June 2025

- Collaborated with teams to gather requirements and tailor solutions for energy data systems.
- Built and evaluated hybrid retrieval models for accurate domain-specific queries.
- Presented insights via dashboards and demos to support data-driven decisions.
- Refined extraction logic and validation rules for solar generation reports.

Senior Core Member

Vellore, Tamil Nadu

IEEE-CS VIT

March 2025 – Present

- Contributed to the design domain of IEEE-CS, specializing in the UI/UX subdomain.
- Played a key role in the redesign of the main website, enhancing user navigation and overall experience.
- Led the UI/UX design efforts for flagship event websites, creating visually appealing and user-friendly interfaces.

Projects

Solar Energy RAG System

- Engineered a RAG pipeline with LangChain, ChromaDB, and Llama3 to query solar PDF reports.
- Achieved 3x faster metric retrieval using regex and semantic chunking.
- Built an intuitive Streamlit UI for real-time, natural language interaction.

AI Symptom Analysis Assistant

MedAssist Chatbot [↗](#)

- Developed an AI chatbot to analyze symptoms and recommend departments via FastAPI.
- Reduced initial triage time by 40% through guided symptom-specific responses.
- Integrated Tailwind-based UI with real-time backend inference.

Productivity Dashboard

Productivity Dashboard [↗](#)

- Built a dashboard with Pomodoro timer, to-do list, and habit tracker features.
- Improved user task completion rate by 30% through time-blocking and goal tracking.
- Designed responsive UI with HTML, CSS, and JavaScript for GitHub Pages.

Skills

Languages: Python, C, C++, R, JavaScript, HTML, CSS

Frameworks: React.js, Express.js, Node.js, TensorFlow, PyTorch, OpenCV, NumPy, Pandas, Bootstrap

Soft Skills: Leadership, Collaboration, Public Speaking, Adaptability, Time Management.

Languages Known: English, Hindi and Marathi.

Certifications

IBM Gen-AI *IBM GEN-AI Certificate* [↗](#)

Supervised Machine Learning (Stanford/DeepLearning.AI) *Supervised Machine Learning Certificate* [↗](#)

Advanced Learning Algorithms (Stanford/DeepLearning.AI) *Advanced Learning Algorithms Certificate* [↗](#)