

# Mrinali Charhate

Mumbai, India

mrinalicharhate@gmail.com +91 8104158875 **Portfolio:** [mrinali-charhate.vercel.app](#) **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](#) 