

Mrinali Charhate

Mumbai, India

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Education

Vellore Institute of Technology, Vellore <i>BTech in Computer Science and Engineering (Information Security)</i>	<i>2023 – Present</i>
◦ CGPA: 9.17/10.0	

Apeejay School Nerul *Secondary Education* *2020 – 2023*

Experience

UI/UX Designer <i>IEEE-CS VIT</i>	<i>Vellore, Tamil Nadu</i> <i>March 2025-Present</i>
◦ Designed user interfaces for web platforms, improving navigation clarity and user flow. ◦ Collaborated with developers and stakeholders to translate requirements into functional designs. ◦ Iterated on prototypes using user feedback to enhance usability and accessibility.	

AI-ML Intern *Mumbai, Maharashtra* *June 2025*
Reliance - New Energy

- Collaborated with teams to refine requirements for energy data systems.
- Built and evaluated hybrid retrieval models for accurate domain-specific queries.
- Delivered insights through dashboards and demos to support data-driven decision-making.

Projects

Sensitive Data Classifier (AI-Powered Detection)	<i>SecureSense</i> ↗
◦ Designed and implemented a hybrid data-detection system combining rule-based parsing with transformer inference.	
◦ Developed a containerized REST API with authentication, encrypted storage, and structured audit logging.	
◦ Optimized request handling and modularized components to support scalable integration with downstream services.	

Skill Decay Tracker (AWS-Based) *SkillForge* ↗

- Engineered a serverless data pipeline using AWS Lambda, ECS, and DynamoDB for distributed processing.
- Automated ingestion workflows with state validation to ensure reliability across asynchronous jobs.
- Designed secure access patterns and fault-tolerant data flows for scalable cloud-based systems.

Solar Energy RAG System

- Built a document-query platform using LangChain and LLMs to enable structured retrieval from large datasets.
- Implemented semantic indexing pipelines to improve query performance and response relevance.
- Developed an interactive Streamlit interface supporting natural-language queries and real-time responses.

Skills

Programming: Python, C++, SQL

Technologies: REST APIs, Docker, AWS, Git

AI/ML: Machine Learning, NLP, TensorFlow, PyTorch

Soft Skills: Problem Solving, Collaboration, Communication

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* ↗