

Mrunmayee Phadtare

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Education

B.Tech CSE with specialization in Health Informatics	2022-2026
Vellore Institute of Technology, Bhopal	CGPA: 8.91
Class X Vikas - The Concept School Percentage: 95.4%	2019

Projects

Machine Translation System | NLP, Python, Moses Toolkit

- Built a phrase-based SMT system using Moses toolkit (Debian Linux/WSL), automating training/evaluation pipelines.
- Applied **BLEU** score metrics for model benchmarking and integrated embedding techniques foundational to RAG (Retrieval-Augmented Generation).

Breast Cancer Prediction | MATLAB, Deep Learning

- Engineered a Convolutional Neural Network (CNN) model utilizing the **AlexNet** architecture in MATLAB on medical imaging data.
- Conducted exhaustive hyperparameter optimization and k-fold cross-validation to refine model parameters, achieving a robust classifier with 96% prediction accuracy.

PhishNet: Phishing Website Detection | Python, Flask, Machine Learning

- Developed a **RESTful API** for phishing URL detection using supervised ML models with Flask.
- Designed microservice-ready architecture supporting modularity and scalability.
- Evaluated model performance using classification metrics (accuracy, precision, recall, F1).

StockSense: Full Stack Stock Trading App | MERN Stack, WebSockets

- Developed a full-stack trading platform using **React.js**, **Tailwind CSS**, **Node.js**, **Express.js**, and **MongoDB Atlas**.
- Built real-time stock dashboards and AI-powered stock prediction tools for smarter decision-making.
- Collaborated in an agile environment with sprint-based planning and contributed to core modules including **API integration**, **portfolio tracking**, and **analytics UI**.
- Enhanced performance by reducing API response latency by 30% using WebSocket-based data streaming.

Technical Skills

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- **Languages:** Python, C++, Java
 - **Web & App Development:** HTML, CSS, JavaScript, React.js, Tailwind CSS
 - **Backend & Databases:** Node.js, Express.js, MongoDB Atlas, MySQL, Flask
 - **Technologies:** REST APIs, Git, Cloud Deployment, JWT Authentication
 - **ML & AI:** Hugging Face Transformers, SentenceTransformers, Moses SMT, LLM pipelines (fine-tuning, inference, evaluation), embedding-based retrieval
 - **Soft Skills:** Ownership, Agile Collaboration, Problem-Solving, UI/UX Design

Certifications

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- IBM Generative AI Professional | IBM (2025)
 - Artificial Intelligence | IIT Madras (2024)
 - Web Development (HTML/CSS/JS) | Johns Hopkins University (2023)