

MAITRI TRIVEDI

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Education

International Institute of Information Technology Bangalore

Masters of Technology in Computer Science Engineering

July 2024 – Present

CGPA : 3.85/4 (till sem 1)

Vishwakarma Government Engineering College (GTU)

Bachelor of Engineering in Computer Engineering

Sep. 2019 – May 2023

CGPA : 3.57/4

Work Experience

Outmarket AI — NLP AI Intern

Upcoming Internship: May 2025 – July 2025

DRC Systems India Limited — Associate Software Engineer

Jan 2023 – June 2024

Gift City, Gandhinagar, Gujarat

- Majorly worked on **Open edX** open-source platform, **Django**, and **Python**, developing features according to client's requirements. Understanding requirements and accordingly developing features and customizations in Open edX platform across different versions.
- Rapid Immunization Skill Enhancement (RISE): Developed features and customized the admin panel as per the requirements.
- FETP: Successfully migrated Open edX from the oldest version to Quince, focusing on developing new features using Django REST APIs to ensure enhanced performance and user experience

Projects

LULC Using Deep Learning on SAR Images 🌐 | *TensorFlow, ScikitLearn, Pandas, Numpy*

- Designed and implemented a deep learning pipeline for semantic segmentation of Synthetic Aperture Radar (SAR) images, achieving 78% classification accuracy.
- Processed and transformed complex SAR imagery data, implementing patch-based segmentation for memory efficiency and class merging to address imbalanced datasets.
- Used multi-class image segmentation techniques for environmental applications, successfully distinguishing between water bodies, vegetation, urban development, and bareland using only radar-based satellite data.

Beautifile : E-Commerce Web App 🌐 | *Python, Django*

- Created an e-commerce website using **Python** and **Django** framework for beauty products.
- Implemented functionality for adding, updating, and deleting products, managing cart and orders, favourite items, order history and creating buyer and seller profiles. Integrated advanced search and filters to find relevant products.
- Seamlessly integrated PayPal for secure transactions. Designed a responsive and attractive UI using Bootstrap, HTML, CSS, and JavaScript(Basic).

FinCore: Multi-User Banking Management System 🌐 | *Linux, C, Socket Programming*

- Designed and implemented a multi-user banking application simulating core banking functionalities such as account management, transactions, and loan processing.
- Ensured concurrency control using file locking, semaphores, and process synchronization to prevent race conditions.
- Built a client-server architecture with socket programming, enabling secure and concurrent access for multiple users.
- Implemented ACID principles to maintain data consistency and transaction integrity during operations.

Technical Skills

- Languages:** Python, C, C++ • **Libraries:** OpenCV
- Technologies/Frameworks:** Django, MySQL, Open edX, Docker, Linux, GitHub, React, Spring Boot, Ansible, Docker-Compose

Relevant Coursework

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|-----------------------|---------------------|--------------------|--------------------------|
| • Data Structures | • Operating Systems | • Probability | • Enterprise Software |
| • Algorithms | • Machine Learning | • Compiler Design | Development |
| • Database Management | • Linear Algebra | • Software Systems | • Reinforcement Learning |

Achievements

- Achieved a **5-star** rating on **HackerRank** in Python programming.
- GATE CSE - 2024: AIR 1687, Percentile: 98.64**