



BRIEF SUMMARY

Final Year BTech Computer Engineering student at MIT Academy of Engineering with a Minor in AI/ML, possessing expertise in JavaScript, Web APIs, SQL, React, and Adobe Experience Manager (AEM). Experienced in software engineering, AI/ML, and enterprise applications through multiple industry internships. Currently developing RAGFlow, integrating Mistral AI, OpenAI, Phi, DeepSeek, and LLaMA 3.2B for AI-powered proposal generation, along with a Kroki-based diagram generator for workflow visualization. Passionate about leadership, management, and marketing, with a strong interest in international exposure and entrepreneurial ventures in education. Demonstrates discipline, resilience, and strategic thinking, with a commitment to innovation and impactful technological advancements.

KEY EXPERTISE

CPP AIML AEM LMS SQL Communication Skills ReactJS Team Leadership

EDUCATION

MIT Academy of Engineering, Pune

2021 - 2025

B.Tech. - Computer Science and Engineering | CGPA: 8.35 / 10

Nirmala memorial foundation college of commerce and science

2021

12th | MSBSHSE | Percentage: 86.60 / 100

Dr. Sarvepalli Radhakrishnan International School

2019

10th | MSBSHSE | Percentage: 67.80 / 100

INTERNSHIPS

Colgate-Palmolive | IT / Computers - Software

01 Jul, 2024 - 01 Jan, 2025

SAP CDC Developer

Key Skills: Javascript Communication Business Intelligence Github SAP

At Colgate Global Business Services, I specialize in UI development, creating child sites for Colgate's global products, and crafting localized email templates and web forms for various languages and regions. My role involves building responsive registration and login forms to collect first-party data and ensuring seamless user experiences across multiple platforms. Additionally, I handle Jira ticket resolutions, ensuring timely and efficient project delivery.

Tridit Digital | IT / Computers - Software

01 Jun, 2024 - 31 Aug, 2024

AEM Developer

Key Skills: Java API ReactJS Node.js Javascript

The AEM Development Internship at Tridit Digital Private Limited in Pune, India, offers an immersive experience designed to provide comprehensive hands-on training in Adobe Experience Manager (AEM). Interns will engage in detailed sessions covering AEM architecture, components, templates, workflows, integrations, custom development, and performance optimization. They will participate in hands-on exercises, live projects, and continuous mentor-led evaluations to apply theoretical knowledge practically. The internship aims to build robust AEM development skills, preparing interns for a successful career in digital content management and delivery.

UniConverge Technologies

25 Apr, 2024 - 19 Jun, 2024

Intern

Key Skills: Git Flask Data Science Machine learning Github Python

Project Achievements: Successfully completed projects like agricultural crop prediction (using ensemble models like Random Forest, XGBoost, and LSTM), traffic pattern forecasting (real-time AI-based monitoring), and data visualization integration (interactive dashboards with Matplotlib, Seaborn, and Plotly).

Challenges Addressed: Overcame issues in data integration, real-time processing, scalability, and complex visualizations through advanced techniques like API optimization, caching, and stakeholder feedback.

PROJECTS

Text Generator for medical diagnosis

Mentor: Dr. Mayura Kulkarni | Team Size: 4

Key Skills: Machine Learning Web Development NLP

Skilled developer with expertise in using deep learning to create a system that automatically diagnoses patients and prescribes medication based on their medical history. Designed to help busy doctors save time by eliminating manual diagnosis writing. Committed to simplifying healthcare processes and improving patient care through innovative technology.

Movie Recommendation System

Key Skills: Html CSS Javascript

Project Link: <https://github.com/Virraaj/MOVIE-RECOMMENDATION-SYSTEM-.git>

In this project ,I learned all the basics of html,css and javascript and developed a very excusite UI And smooth animations just like a netflix clone

Avatar based sign language video generation from speech for disabled people

Mentor: Dr. Sunita Barve

Key Skills: AI Machine learning deep learning unity C#

"Designed and developed an end-to-end application catering to the needs of the deaf community, seamlessly translating spoken language into sign language through innovative technology integration. Utilized Google API for speech-to-text conversion, cutting-edge transformer models for text-to-sign language translation, and Unity for avatar animation generation. Produced a user-friendly interface allowing individuals to input speech, which was then transformed into a word-by-word avatar-based video, ensuring effective communication accessibility for the deaf population."

Personalized Learning Application

Mentor: Mr. Krunal Pawar

Key Skills: html css javascript react API backend NodeJS

An online learning platform provides a wide range of courses covering diverse subjects. Users can access both free and paid options, learning at their own pace through video lectures, quizzes, and assignments.You can add your own course on the platform.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Age-Adaptive Lung Cancer Prediction using Ensemble Learning Methods

23 Nov, 2024

IEEE International conference on integrated intelligence and communication systems (ICIICS-2024) | Mentor: Dr. Sunita Barve | No. of Authors: 5

Key Skills: Machine Learning Ensemble Learning Predictive Methodology

Objective: The study analyzes machine learning (ML) and ensemble learning (EL) models for age-adaptive lung cancer prediction, considering middle-aged and elderly cohorts. Data Preprocessing: Performed tasks like null value handling, deduplication, categorical encoding, and used chi-square tests to select key risk factors, ensuring standardized scaling for efficiency. Handling Data Imbalance: Addressed imbalanced datasets caused by cohort segregation using Synthetic Minority Oversampling Technique (SMOTE). Model Optimization: Employed GridSearchCV for parameter tuning and K-Fold Cross Validation to ensure robust training and prevent overfitting on limited data. Results: For middle-aged groups, KNN (92.22%) and Random Forest (92.78%) performed best, while for elderly cohorts, Naive Bayes (95.66%) and Random Forest (96.98%) showed superior accuracy, confirming RF's robustness across age groups.

TrafficSense-DTLS: An AI-Driven Dynamic Signal System for Seamless Urban Mobility using YOLOv8

AVINYA CONFERENCE 2025 | Mentor: Dr. Sunita Barve | No. of Authors: 3

Key Skills: Machine Learning Computer Vision Research Creative Writing

A Dynamic Traffic Light System (DTLS) powered by YOLO is proposed to optimize urban traffic flow. Unlike conventional timed signals, DTLS uses real-time vehicle detection from cameras to dynamically adjust signal timings based on traffic density. It also integrates predictive analytics with historical data to foresee congestion and optimize traffic flow. Additionally, neighboring intersections communicate to prioritize high-traffic areas, such as emergency routes. This scalable and sustainable solution enhances urban mobility while reducing delays, fuel consumption, and emissions.

ACHIEVEMENTS

- o Certificate of Appreciation in NAKSHATRA for exceptional contribution in Co-curricular activities
- o Received the "Best Paper Presenter" award for the paper titled "Age-Adaptive Lung Cancer Prediction Using Ensemble Learning Methods" at the 2nd IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS-2024)

ASSESSMENTS / CERTIFICATIONS

AI/ML AWS Certificate

AI/ML Google Certificate

CodSoft Internship certificate

Codeshef Organizing certificate

AWS Cloud Foundation

Vehical Dynamic Workshop

Cisco Packet Tracer

Cisco Cloud Certificate

Triidit Digital TY Btech Internship Completion Certificate

Colgate Internship Certificate

Best Paper Presenter Certificate in ICIICS.

Certificate of Appreciation in NAKSHATRA for outstanding co-curricular contributions.

POSITIONS OF RESPONSIBILITY

Management Lead at CodeChef MITAOE Chapter

CodeChef MITAOE Chapter is a programming club led by official representatives and mentored by **CodeChef** to promote **competitive programming**. It organizes **contests, workshops, and doubt sessions** to enhance problem-solving skills and career growth. The chapter also conducts **meetups** and outreach programs to introduce programming to students, including school kids.

▯ **Chapter Link:** [CodeChef MITAOE Chapter](#)

▯ **Faculty Advisor:** Ms. Neha Hajare, SCE

Management Lead in Foreign Language Club

Foreign Language Club - MITAOE

The **Foreign Language Club** promotes **awareness and learning of foreign languages**, helping students explore **career opportunities, higher studies, and cultural diversity**. The club organizes **workshops, quizzes, and cultural events** to foster bilingualism and connect language enthusiasts. Learning a foreign language enhances **creativity, problem-solving skills, and cognitive abilities**, while also providing exposure to **global cultures and career prospects**.

▯ **Faculty Advisor:** Mr. Surendra Barewar

▯ **Club Link:** [Foreign Language Club - MITAOE](#)

Girlscript Technical Member

GirlScript - MITAOE

GirlScript is a **technical community** and a **section-8 company** registered under the **Government of India**, with **36 chapters across India** and **3 international chapters**. It is open to all, promoting **diversity and equality in technology** through **expert talks, seminars, workshops, and meetups**. The club focuses on **data science, machine learning, and artificial intelligence**, helping students build strong technical skills and fostering a **global community** for beginners in programming.

▯ **Club Link:** [GirlScript - MITAOE](#)

▯ **Faculty Advisor:** Ms. Shubhangi Kale | **Email:** spkale@comp.maepune.ac.in

CO-CURRICULAR ACTIVITIES

- Successfully conducted proctored online coding exams (Mid & End Semester) for SY BTech Problem Solving using OOP (C++) under CodeChef MIT AOE Club as the CodeChef Management Lead, promoting problem-solving skills across multiple engineering schools.
- Participated in CodeQuest'22 in Pair-Programming, organized by MITAOE CodeChef Club.
- Selected for the Smart India Hackathon (SIH) 2023 & 2024 Internal Hackathon.
- Cleared the first round of the Flipkart Hackathon, competing at a national level against participants from across India.

EXTRA CURRICULAR ACTIVITIES

- Runner-up in Navaratri MITAOE (1st October 2022) (Choreographer)
- Organized Language Immersion Day at MIT Academy of Engineering under the Foreign Language Club on 31st July 2024.
- Successfully managed the complete Club Mela for the Foreign Language Club (FLC) at MIT Academy of Engineering.

- Successfully managed Character Day for Nakshatra 24 under the FLC Club.
- Served as a Datathon Organizing Team Member for GirlScript MITAOE's National-Level Datathon event.

IMs

- Other - <https://www.linkedin.com/in/viraj-chudasama-086727239/>

PERSONAL DETAILS

Gender: Male

Marital Status: Single

Current Address: H 32 new gitanjali raheja township, Ls raheja road malad east, Mumbai, Maharashtra, India - 400097

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Date of Birth: 06 Nov, 2003

Known Languages: 1.English 2.Gujarati 3.Hindi

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