

MEET MARU

AI/ML Undergraduate Engineer • Full Stack Developer

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PROFESSIONAL SUMMARY

AI/ML-focused Computer Science Engineering student (B.E., 2024–2028, CGPA (Sem-IV) 7.96 with 1+ year of hands-on experience building and deploying multimodal AI systems, full-stack web applications, and classical machine learning algorithms. Proficient in Python, Flask, React.js, and REST API integration. Experienced with LLMs, Generative AI, NLP, Computer Vision, and cloud platforms (Google Cloud, Microsoft Azure). Delivered 5+ production-grade projects end-to-end. Proven technical leadership as Vice President of a professional body, organising 2 major tech events with 90+ combined participants.

TECHNICAL SKILLS

Languages: Python, C++, HTML5, CSS3, JavaScript, PHP, SQL, React

Frameworks & Libraries: Flask, React.js, Tkinter, Pygame, NumPy, Pandas, Scikit-learn, WebSocket

AI / ML: Machine Learning, Deep Learning, NLP, Computer Vision, LLMs, Generative AI, Prompt Engineering, Multimodal AI, Google Gemini API, Vertex AI, DeepFace, Azure Cognitive Services, REST API Integration

Databases: MySQL, MongoDB

Cloud & DevOps: Google Cloud Platform (GCP), Microsoft Azure, Netlify, Git, GitHub, Vercel, Railway, Render, Infinityfree

Tools: VS Code, Figma, Canva, AutoCAD

Soft Skills: Technical Leadership, Cross-functional Collaboration, Public Speaking, Project Management, Rapid Prototyping

EXPERIENCE

Vice President — Professional Body, VIVA Institute of Technology — Sep 2025 – Present *Virar, Maharashtra*

- Led a 12-member core committee overseeing academic and technical operations for a department of 200+ students, coordinating 2 flagship tech events (TechChase 2k25, Ingenious 2026)
- Managed cross-functional teams of 15+ faculty members and student volunteers, increasing student participation in technical workshops and seminars by an estimated 30%
- Aligned student initiatives with institutional goals by co-ordinating directly with department heads, streamlining communication workflow and reducing planning lead time
- Directed end-to-end event logistics including budgeting, scheduling, and stakeholder communication across 3 academic departments

Event Head, Keynote Speaker & Unity Game Developer — TechChase 2k25 — Feb 2025

VIVA Institute of Technology, Virar

- Conceptualised, built, and ran flagship AI vs Human Battle event with 90+ participants; designed and deployed a 3-level Unity 3D game with a custom map within a 1-month solo development timeline
- Delivered a keynote talk on Generative AI and Human-AI Interaction to an audience of 50+ engineering students and faculty, receiving positive feedback on technical depth and clarity
- Mentored 5 junior participants on Unity game development workflows, guiding them from ideation to working prototypes within a 48-hour sprint

PROJECTS

[NextShare — Secure Paste-Sharing Platform](#) *Node.js · Express · React.js · Vite · MongoDB · Redis · Vercel · Render*

- Architected and deployed a full-stack paste-sharing platform with a REST API backend on Node.js/Express and a React/Vite frontend, deployed across Render and Vercel with cross-origin configuration
- Implemented burn-after-read functionality using navigator.sendBeacon and beforeunload/visibilitychange listeners to reliably detect tab closure and trigger content self-destruction
- Used Redis for ephemeral state management (IP tracking, view counters) and MongoDB for persistent paste storage, supporting configurable expiry and per-paste view limits
- Built a secret-key-authenticated admin dashboard with Chart.js-powered analytics (line, doughnut, and grouped bar charts), a content leaderboard, and sortable data tables across content types
- Diagnosed and resolved a production blank-screen bug caused by CommonJS/ESM conflicts in the Vite bundle, restoring full functionality post-deployment

[OrbitX + MAitri AI — Multimodal Space Exploration Platform](#) *Python · Flask · PHP · MySQL · Gemini API · DeepFace · WebSocket · Azure · Netlify*

- Engineered full-stack web platform with Python, Flask, PHP, and MySQL; implemented secure user authentication, session management, and real-time WebSocket communication, reducing server response latency
- Built a Computer Vision pipeline using DeepFace for real-time facial emotion detection via webcam; integrated NLP-based empathetic response generation supporting 3 Indian languages (Hindi, Marathi, Gujarati)
- Integrated Google Gemini API and Vertex AI for generative AI responses; added Azure Cognitive Services for speech features; achieved full end-to-end deployment in 2 weeks (1 week backend + 1 week frontend)
- Selected in Smart India Hackathon (SIH) 2025 internal round from a pool of 30+ competing teams, validating production quality and technical feasibility

[C-Thrifter — Sustainable Fashion Peer-to-Peer Marketplace](#) *HTML5 · CSS3 · JavaScript · Responsive Design · UI/UX*

- Designed and developed a responsive 4-page web application for peer-to-peer pre-owned clothing exchange, achieving cross-browser compatibility across Chrome, Firefox, and Safari
- Built a complete user authentication system (signup/login) with client-side form validation; applied UI/UX design principles (typography, color theory, wireframing) to improve user task completion flow

[Tic-Tac-Toe AI — Unbeatable Classical AI Agent](#) *Python · Tkinter · Pygame · Minimax Algorithm*

- Implemented Minimax algorithm in Python with full game-tree search across all 255,168 possible board states; AI achieves 100% optimal play with 0 losses — demonstrated live to 20+ attendees
- Applied classical game-theory AI to demonstrate core machine learning decision-making concepts interactively, reducing audience time-to-comprehension vs. lecture-only format

EDUCATION

B.E. in Computer Science Engineering — AI & ML Specialisation — 2024 – 2028

VIVA Institute of Technology, Virar (Mumbai University) *SEM-4 CGPA: 7.96 / 10*

11th & 12th — Computer Science — 2022 – 2024

Swami Vivekanand International School and Jr. College, Kandivali *HSC: 60%*

CERTIFICATIONS

- **Prompt Engineering — Google** - *Prompt Engineering · LLMs · Generative AI · Chain-of-Thought Prompting · Few-Shot Learning*

- **UI/UX Design Workshop — VIVA Institute of Technology** — *Figma · User Flows · Wireframing · Prototyping · Typography · Color Theory · Responsive Design*
- **Vertex AI / Google Cloud Fundamentals** — *Vertex AI · GCP · ML APIs · Generative AI on Google Cloud · Model Deployment*
- **Prompt Engineering with Llama 2 & 3 — edQuest** - *Prompt Engineering · LLM Workflows · Meta Llama Models*
- **Introduction to Artificial Intelligence — Simplilearn** - *Machine Learning · AI Fundamentals · Core Concepts*
- **SQL to MongoDB's Document Model — MongoDB University** - *NoSQL · DB Architecture · Data Modeling · Document Databases*
- **Computer Vision App with Azure Cognitive Services** — *Microsoft Azure · Computer Vision · Cognitive APIs · Image Recognition*

ACHIEVEMENTS & ACTIVITIES

- **Vice President — CSI Professional Body, VIVA Institute:** Youngest VP in department history; led academic & technical initiatives for 100+ students across departments
- **SIH 2025 Internal Round Cleared:** Shortlisted from 30+ teams for Smart India Hackathon with OrbitX + Maitri AI — multimodal AI project combining Computer Vision, NLP, and Generative AI
- **TechChase 2k25 — AI-Tech Battle Event Head:** Organised and ran flagship AI vs Human event with 90+ participants; built 3-level Unity game in 1 month and delivered Generative AI keynote to 50+ attendees
- **Ingenious Tech Fest 2026 — VIVA Institute:** Presented AI Web project concepts; developed skills in technical pitching, rapid prototyping, and cross-departmental collaboration
- **1st Prize — Volleyball Tournament (VIVA Institute):** Demonstrates teamwork, competitive performance, and leadership under pressure
- **Class Representative (5th & 10th Grade):** 2-time elected class representative; managed school-level events and coordinated between students and faculty