

KRISH HITENDRA MISTRY

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Full-Stack Developer • Frontend Engineer • AI/ML Engineer

PROFESSIONAL SUMMARY

Final-year B.E. Information Technology student (CGPA 9.2/10) specializing in full-stack web development, frontend engineering, and applied machine learning. Shipped 8 production-grade applications using React, Next.js, TypeScript, Node.js, Flutter, Django, and TensorFlow, including a real-time 3D data-visualization dashboard and an on-device computer-vision app. Experienced building and consuming REST APIs, integrating LLMs (Gemini 2.0 Flash) into production workflows, and deploying scalable systems on Firebase/Vercel. Currently ML Engineering Intern at Flyrank AI. Runner-Up, Colloquium '25 (200+ teams); Google Student Ambassador 2026.

EDUCATION

St. Francis Institute of Technology, Mumbai *B.E. Information Technology* Aug 2023 – Jun 2027
Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, Machine Learning, Software Engineering CGPA: 9.2/10

Mother Mary's Junior College, Mumbai Score: 76% | Active in chess and carrom competitions 2023

Mother Mary's High School, Mumbai Score: 90% | Active in school-level sports events 2021

INTERNSHIP EXPERIENCE

Machine Learning Intern — Flyrank AI Jul 2026 – present
Startup · Remote

- **Own end-to-end ML feature delivery** - from data processing to production deployment - designing and building scalable machine learning models for Flyrank's core product in a fast-moving startup environment.
- **Integrate ML models via REST APIs** in collaboration with cross-functional engineering teams, ensuring seamless feature functionality across Flyrank's platform.

AI Web Development Intern — InAmigos Foundation (IAF) Jun 2026 – Jul 2026
NGO · Remote

- **Built and shipped production-ready, AI-integrated web features** using Next.js, React, and Node.js for a social-impact platform serving underserved communities.
- **Improved delivery velocity and accessibility** by participating in code reviews, cross-team discussions, and iterative sprint cycles.

PROJECTS

ImpactGlobe - Real-Time 3D Geopolitical Intelligence Dashboard Apr - May 2026
Next.js 15 · TypeScript · Three.js · Gemini 2.0 Flash · Firebase · Vercel · Open-Meteo / USGS / NASA EONET |
impact-globe.vercel.app | [GitHub](https://github.com)

- **Engineered a real-time geopolitical intelligence platform** on a 3D interactive globe (Three.js + Leaflet) by streaming 7 live environmental overlays - earthquakes, wildfires, AQI, and wind - via Open-Meteo, USGS, and NASA EONET APIs, achieving sub-400ms UI render through Firebase Realtime push and debounced listener batching to eliminate frame drops.
- **Integrated Google Gemini 2.0 Flash as an autonomous AI agent** by implementing automated Vercel cron jobs to generate 6 structured geopolitical intelligence briefs with direct Forex impact analysis (EUR/USD, XAU/USD) every 4 hours - zero manual trigger required.

HemiSphere - AI-Powered Cross-Platform Community Safety App Jan - Apr 2026
Flutter · Firebase Firestore · TensorFlow · MobileNetV3 CNN · Python · Dart
hemisphere-dev.vercel.app | [GitHub](https://github.com)

- **Eliminated cloud-API dependency and ensured full offline operation** by training a MobileNetV3 CNN (Transfer Learning, 3-class) for on-device incident classification detecting accidents, construction hazards, and garbage from photos with sub-200ms inference, reducing sensitive data exposure to zero external servers.
- **Delivered real-time community safety monitoring** across Android and iOS by implementing Flutter + Firebase Firestore with real-time sync, enabling neighbourhood incident reporting, resource sharing, and alert broadcasting for all community members simultaneously.

ChessAnalyzer - Zero-Backend Browser Chess Analysis Suite Sep - Nov 2025
Next.js 15 · TypeScript · React 18 · Stockfish WASM · MUI · Jotai
chess-analyzer-qf7v.vercel.app | [GitHub](https://github.com)

- Eliminated all backend infrastructure costs by deploying Stockfish 17 as a client-side WASM engine with adaptive thread count based on device CPU cores, enabling full-strength chess engine analysis at zero server cost with graceful degradation on low-powered devices.
- Delivered a production-grade analysis UX by implementing move classification (Brilliant → Blunder), evaluation graph, opening detection, multi-PV engine lines, best-move arrows, 40+ piece set themes, and IndexedDB local game saves all with zero account requirement.

HeritageGuide - Django-Powered Intelligent Travel Companion

Jan – Apr 2025

Django 5 · Leaflet · OpenStreetMap · OSRM · Google Maps API · Supabase
[heritage-guide.vercel.app](#) | [GitHub](#)

- Won Runner-Up (2nd Prize) at Colloquium '25 — IT for Good Governance track (national-level, 200+ teams) by building a Django travel companion with interactive Leaflet + OSM map, smart multi-modal routing via OSRM (no paid API key), and curated POI markers for heritage sites across India.
- Solved tourist over-crowding and booking conflicts by implementing a slot-based attraction booking engine with real-time availability enforcement and a multi-day itinerary planner using a City → Attraction → Day → Activity data model.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, C, C++, SQL, HTML, CSS
Frontend: Next.js, React, Vite, Three.js, Tailwind CSS, Leaflet, Recharts, PWA
Backend: Node.js, Express.js, Django REST Framework, REST API Design, JWT, OAuth2, WebRTC, Socket.IO
Mobile & Cloud: Flutter (Android/iOS), Firebase, Supabase, PostgreSQL, MySQL, MongoDB, Redis, Vercel, Docker
AI / ML: TensorFlow, MobileNetV3 CNN, Gemini 2.0 Flash, LLM Integration, Prompt Engineering, Pandas, NumPy
Tools: Git, GitHub, CI/CD, REST API Testing, Android Studio

LEADERSHIP & EXTRACURRICULAR

Google Student Ambassador - Google

May 2026 – Present

- Selected as Google Student Ambassadors representing SFIT in Google's Gemini Student Ambassador Program 2026 (1500+ colleges nationwide) by clearing a competitive screening and video evaluation round.
- Driving Gemini AI adoption on campus by organizing workshops, tech talks, and community events, tracking monthly engagement metrics and submitting performance impact reports.

Ideathon Director - Samadhan 2026, SFIT

Jan 2026 – Apr 2026

- Directed a national-level ideathon end-to-end for 100+ participants by managing logistics, vendor coordination, and on-ground operations, achieving zero critical failures on event day.
- Secured real-world problem statements by spearheading partnerships with 3 NGOs — Ek Saath – The Earth Foundation, Blue Ribbon Movement, and Mumbai Citizens Forum — facilitating mentorship initiatives for participating teams.
- Ensured seamless cross-functional execution by leading a core organizing committee through stakeholder interviews, task delegation, and timeline management from ideation through prize distribution.

Head of NSS (National Service Scheme) - SFIT

Mar 2025 – May 2026

- Led SFIT's NSS chapter by coordinating 50+ student volunteers across community service initiatives, social outreach programs, and campus drives, improving volunteer retention through structured role assignment.
- Represented NSS at the institute level by serving as the primary liaison between student volunteers and faculty coordinators, managing end-to-end event planning from recruitment through post-event reporting.

Team Leader - Cipher Monks (Hackathon Team)

Jun 2026 – Present

- Leading a dedicated engineering team across 2–3 major hackathons under tight deadlines, responsible for system architecture, task delegation, and end-to-end project execution.

ACHIEVEMENTS & CERTIFICATIONS

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| • AI Web Development Internship - InAmigos Foundation Remote (Completed) | Jun – Jul 2026 |
| • Machine Learning Mastery - Devtown × GDG CSMU × MSC GNIT | Jun 2026 |
| • Data Analytics Bootcamp - NoviTech R&D Pvt. Ltd. | Jun 2026 |
| • AI Agent Builder Workshop - BotCampus AI | Nov 2025 |
| • Web Auth Intensive: Basic to Advanced Security - Devtown × GDG VIT-AP × MSC MSIT | Oct 2025 |
| • NoSQL Ninjas: MongoDB Edition - Devtown × GDG VIT-AP × MSC MSIT | Sep 2025 |
| • 2nd Prize Colloquium '25, SFIT IT for Good Governance track National-level, 200+ teams | Apr 2025 |
| • Volunteering Colloquium '25, Dept. of IT, SFIT | Apr 2025 |

HOBBIES & INTERESTS

Chess (national-level competitor) · Rubik's Cube (multiple variants) · Cricket (2× Box Cricket Winner) · Carrom (school-level)