Krish Sanghavi

Full-Stack Developer with AI/ML & Embedded Systems Experience

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🔗 https://krishcodes.dev

Summary

Engineering undergraduate specializing in full-stack development, AI/ML systems, and embedded/IoT applications. Experienced in building production-grade platforms through national hackathons, including healthcare systems, agentic AI decision engines, and data analytics pipelines. Strong foundation in Python, FastAPI, React, cloud deployment, and system design, with a focus on solving real-world problems under tight constraints.

Technical Skills

Core Languages
Python, JavaScript, Dart, C (Embedded)

Frameworks & Libraries
Flutter, SwiftUI, Framer Motion, Tailwind CSS, Next.js, React.js, Three.js

Backend & APIs
FastAPI, Flask, Firebase, REST APIs, WebSockets

Data & ML
Scikit-learn, Pandas, NumPy, Model Evaluation

Embedded / IoT
ESP32, MSP430, RFID, GPIO, Timers

Cloud, Hosting & DevOps
Vercel, Firebase, Netlify, Railway

Databases & Storage
Firebase Firestore, MongoDB, SQLite, PostgreSQL

OS
Linux, MacOS, Windows

Education

Bachelor of Technology (B.Tech) — Electronics & Telecommunications,
KJ Somaiya School of Engineering, Mumbai
Graduation: 2027

Junior College – 12th Grade,
KJ Somaiya College of Science and Commerce, Mumbai

Certificates

UX Design Fundamentals: ⧉ California Institute of the Arts ●

Introduction to Cybersecurity: ⧉ Cisco Networking Academy

CCNA: Switching, Routing, and Wireless Essentials: ⧉ Cisco Networking Academy ●

CCNA: Enterprise Networking, Security, and Automation: ⧉ Cisco Networking Academy

Technical Experience

Asha EHR Platform,
Mobile EHR Platform (Smart India Hackathon Project)
Engineered an **offline-first EHR platform** supporting **50+ concurrent patient records per device**, enabling ASHA health workers to operate reliably across **multiple field workflows** with a multilingual interface.
Architected and deployed **secure REST APIs** to process **structured healthcare data and 10+ government form schemas**, ensuring **reliable cloud synchronization, offline recovery**, and data integrity under low-connectivity conditions.

VerifAI – Agentic AI Fraud Detection Platform,
AI Fraud Detection Platform (AWS AI for Bharat, Ideathon Project)
Built an **agentic ML decision engine** capable of evaluating **hundreds of transactions per minute**, autonomously routing outcomes to **Approve / Hold / Block** states via scalable REST APIs.
Developed a **React-based analytics dashboard** to visualize **risk scores, decision paths, and historical user behavior**, enabling faster analyst investigation and informed decision-making.

NabhaCare,
Digital Health Platform (Smart India Hackathon Project)
Led a 6 people team to develop an **AI-assisted medical triage system** analyzing **200+ symptom categories** to classify urgency levels and recommend next actions, improving early medical prioritization. Collaborated on patient record workflows and real-time consultation features to support **remote care delivery** under time-bound hackathon constraints.

Smart RFID-Based Inventory Access Control System
Architected an **IoT-enabled inventory access system** enforcing **RFID-based authentication** across multiple tools and storage units with **role- and time-based authorization policies**. Implemented **immutable audit logging and QR-based inventory declaration**, improving **traceability, accountability**, and misuse detection across access events.

UIDAI Enrollment Gap Analysis,
Data Analytics (UIDAI Data Hackathon Project)
Analyzed **large-scale UIDAI enrollment datasets (100k+ records)** to identify regional and demographic enrollment gaps and built data-driven insights under real-world constraints.

Personal Portfolio Website
Designed and shipped an **interactive, scroll-driven portfolio** leveraging **3D visual storytelling** to communicate technical depth and project impact. Optimized animation pipelines and state management to deliver **high-performance, responsive UX** across devices.