Krish Sanghavi

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

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 https://github.com/krishcodes-dev

Technical Skills

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

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

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

Databases & Storage
Firebase Firestore, MongoDB, SQLite, PostgreSQL

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

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

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

Selected Technical Projects

Asha EHR Platform, *Mobile EHR Platform (Smart India Hackathon Project)*
Tech: FastAPI · Firebase · Flutter
- Built an offline-first EHR system for ASHA health workers with multilingual UI
- Designed secure APIs and cloud sync for patient records and government forms

VerifAI – Agentic AI Fraud Detection Platform, *AI Fraud Detection Platform (AWS AI for Bharat, Ideathon Project)*
Tech: Python (FastAPI, XGBoost) · React · PostgreSQL · Redis
- Built an agentic ML engine that scores transaction fraud risk in real time and autonomously routes decisions to Approve, Hold, or Block via REST APIs.
- Developed an interactive React dashboard for analysts to inspect risk factors, user history, and system decisions.

NabhaCare, *Digital Health Platform (Smart India Hackathon Project)*
Tech: FastAPI · Python · NLP-based symptom analysis · React · Firebase · PostgreSQL
- Built an AI-assisted medical triage system that analyzes patient symptoms and determines urgency levels
- Developed a patient record management system to store and retrieve medical histories securely
- Integrated Jitsi-based video consultation to enable real-time interaction between patients and doctors
- Implemented a doctor availability and scheduling module for efficient remote consultations

Smart RFID-Based Inventory Access Control System
Tech: ESP32 · RFID · Python · IoT · REST APIs · PostgreSQL · Node.js / Flask
- Designed and implemented an IoT-enabled inventory system where RFID cards control physical access to tool storage units
- Built a cloud-based authorization engine enforcing role-based and time-based access policies
- Integrated QR-based inventory declaration and immutable audit logging for traceability and misuse prevention

UIDAI Enrollment Gap Analysis, *Data Analytics (UIDAI Data Hackathon Project)*
Tech: Python · Pandas · Machine Learning · Scikit Learn
- Analyzed large-scale UIDAI enrollment datasets to identify regional and demographic gaps
- Built data-driven insights under real-world constraints and limited time

F1 Prediction ML Model
Tech: Python, Streamlit, FastAPI
- Built an ML model (Scikit-Learn) to predict F1 race outcomes using historical driver/team data,
- Streamlit dashboard and FastAPI backend integration.

Personal Portfolio Website
Tech: Next.js · Framer Motion · Three.js (R3F)
- Designed an interactive, scroll-driven portfolio with 3D visual storytelling
- Implemented advanced animation and state management for performance and UX

Attendance Management System
Tech: Python · SQLite
- Developed a faculty-facing tool to record attendance with local persistence using SQLite and CSV/PDF export.

Education

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