

Gaikwad Onkar Chandrakant

Bachelor of Technology in Artificial Intelligence | Indian Institute of Technology Gandhinagar | 2024 – 2028

onkargaikwad3319@gmail.com | +91 80554 03319 | GitHub | LinkedIn | Portfolio

Education

Indian Institute of Technology Gandhinagar

Bachelor of Technology in Artificial Intelligence

2024 – 2028

CPI: 6.46

Experience

Flutter Developer – INSIIT

2025 – Present

Official Student Application, IIT Gandhinagar

- Developed Flutter features for the official IIT Gandhinagar student application used by over 1,000 students, working within a collaborative Git workflow with branch-based reviews.
- Implemented Android Home Screen Widgets by integrating Flutter with native Android (Kotlin, XML) via the `home_widget` package, giving students quick access to dynamic campus information from their device home screen.
- Configured background synchronization and local data persistence using `WorkManager`, `SQLite`, and `SharedPreferences` to keep widget content reliably updated without user interaction.

Projects

Aera Messenger *Flutter · Firebase · Supabase · Gemini API*

Demo | GitHub

- Developed a cross-platform real-time messaging application using Flutter; used Firebase Firestore for live message synchronization and Supabase for media storage and user data persistence.
- Integrated Google Gemini API as an in-chat assistant by wrapping API calls in a dedicated service layer, separating AI logic from the Flutter presentation layer via a clean client-server interface.
- Implemented optimistic UI updates and local message queuing so the app remains functional under poor or interrupted network conditions.

Priora *Next.js 16 · React 19 · TypeScript · Tailwind · Supabase · Framer Motion*

Demo | GitHub

- Developed a full-stack productivity platform with Next.js 16 and React 19, using React Context for global state management and Tailwind CSS for a responsive, accessible interface.
- Integrated Google Generative AI to suggest task execution order based on deadlines and workload; built a Pomodoro timer with Rescue Mode and focus-session tracking to support deep-work habits.
- Designed interactive analytics dashboards with Recharts to surface productivity trends, and used Framer Motion to implement smooth transitions between views.

SmartSpend AI *Next.js · TypeScript · Supabase · PostgreSQL · Gemini API · Zustand*

Demo | GitHub

- Built a full-stack personal finance tracker as a Progressive Web App using Next.js and TypeScript; implemented offline-first support with next-pwa and Service Workers for reliable use without connectivity.
- Configured PostgreSQL row-level security policies and Supabase Auth to ensure strict per-user data isolation; integrated Gemini API to AI-assisted spending analysis and budgeting recommendations from transaction history.
- Managed client-side state with Zustand and built responsive expense dashboards that synchronize automatically when connectivity is restored.

RentCast *Python · Scikit-Learn · Optuna · Docker · Streamlit · Hugging Face*

- Built an end-to-end ML pipeline for rental price prediction including data cleaning, feature engineering, and cross-validated model comparison; selected Random Forest as the best-performing model with MAE of Rs. 12,438.
- Used Optuna for automated hyperparameter search (200+ trials) to tune the Random Forest regressor, improving prediction accuracy over default settings.
- Containerized the application with Docker and deployed on Hugging Face Spaces via Streamlit, making the model accessible through an interactive web interface.

Technical Skills

Languages	Python, C++, C, Dart, TypeScript, SQL
Frameworks & Libs	Flutter, Next.js, React, Tailwind CSS, Framer Motion, Recharts, Scikit-Learn, Pandas, NumPy
Backend & DB	Firebase, Supabase, PostgreSQL, REST APIs, Zustand, React Context
Developer Tools	Git, Docker, Linux, Android Studio, Neovim, WorkManager, SQLite
AI / ML	Machine Learning, Optuna, Google Gemini API
Embedded Systems	ESP32, Nordic nRF52840, BLE

Achievements

- JEE Main 2024 — **97.48 percentile**
- MHT-CET 2024 — **98.60 percentile**