NISARG GAJJAR

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Education

KD Ambani Reliance Foundation School, India	**2019 - 2020**

- CBSE (**Class X**), Aggregate: **89.2%**

KD Ambani Reliance Foundation School, India	**2021 - 2022**

- CBSE (**Class XII**), Aggregate: **83.8%**

Vellore institute of Technology Bhopal, India	**2022 - 2026**

- B.Tech (**CSE**), CGPA: 9.04

Skills

- **Programming Languages:** C++, Kotlin, Python
- **Frameworks & Tools**: Jetpack Compose, Retrofit, Scrapy, BeautifulSoup, SendGrid
- **Databases**: SQL, Firebase Firestore
- **Other**: REST APIs, Data Cleaning (Pandas, NumPy)

Work Experience

Jio Platforms Limited	**27.09.2024 – 26.11.2024**

Office Seat Occupancy Detection System (GitHub)

- Developed an Office Seat Occupancy Detection System using Python, OpenCV, and YOLOv5, automating **real-time monitoring of 50+ office seats** and optimizing shared space utilization by **up to 30%**.
- Implemented object detection and tracking pipelines to map seat usage, generate occupancy analytics, and deliver **95%+ detection accuracy**, providing actionable insights for cost-effective workspace management.
- Built features for **real-time chair identification, occupancy duration tracking, and visual feedback with bounding boxes**, reducing manual monitoring effort by **over 70%** and improving efficiency of space management.

Projects

Swasthya | (GitHub) | Google Firebase Authentication, Cloud Firestore, Kotlin, SendGrid

- Built the **Swaasthya mobile application** in Kotlin using Jetpack Compose, providing patients, doctors, and hospital staff with seamless access to appointments, bed availability, and emergency dashboards.
- Integrated **Firebase Authentication and Cloud Firestore** for secure login, role-based access, and real-time synchronization of patient records, inventory data, and scheduling with the backend services.
- Designed and implemented **intuitive UI/UX flows** tailored for patients, doctors, and administrators, enabling efficient appointment booking, patient management, and resource tracking in critical scenarios.

Android Book Discovery App | Kotlin, Jetpack Compose, Node.js, Express, Firebase (Auth/Firestore), Retrofit

- **Designed** a scalable backend with **Node.js** and **Express**, integrating **Firebase Auth** for secure sign-ups and **Retrofit** for API calls, reducing latency by **20%** through caching strategies.
- **Implemented** a personalized recommendation engine based on user reading history, increasing average session duration by **35%**.
- **Deployed** the app with **Firebase Hosting** and **Cloud Firestore**, ensuring real-time syncing of book metadata and user libraries across devices.

Academic and Competitive Coding

- Achieved a **top 1%** ranking in the NPTEL Cloud Computing Examination out of **24,000 students**.
- Practiced **150+** coding problems on *LeetCode*, developing proficiency in data structures, algorithms, and coding efficiency.

Certificates

- NPTEL Marketing Analytics – 2025
- Oracle Database for Developers – Aug 2024
- NPTEL Cloud Computing – May 2024
- Coursera – Computer Networking – Dec 2023
- MATLAB & Simulink Onramp – Sep 2022