

# Aman Kumar

[amanyara21@gmail.com](mailto:amanyara21@gmail.com) - [linkedin.com/in/amanyara21](https://www.linkedin.com/in/amanyara21) - [github.com/amanyara21](https://github.com/amanyara21) - [amanyara21.vercel.app](https://amanyara21.vercel.app)

## EDUCATION

**University Institute of Engineering and Technology, Kurukshetra University**  
*Bachelor of Technology in Computer Science*

July 2021 - June 2025

Kurukshetra, Haryana

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Computer Networks, Database Management System, Operating System

## TECHNICAL SKILLS

**Programming Languages:** Java, Kotlin, JavaScript

**Frameworks and Libraries:** React Native, SpringBoot, ReactJS, Node.js, Jetpack Compose

**Databases:** MongoDB, MySQL, SQLite, RoomDB, Firebase

## WORK EXPERIENCE

### Mobile App Developer

Remote

*ItsMyKart*

June 2023 – August 2023

- Created a user-friendly E-commerce app using React Native with distinct functionalities for users and admins.
- Implemented Redux for efficient state management, enabling smooth cart operations and key features such as checkout and product management.

## PROJECTS

### Fit Yatra – A Health and Fitness App

GitHub

*Kotlin, XML, Firebase ML Kit, SQLite, Python (Flask)*

- Developed an Android health app featuring **step tracking**, **exercise rep counting**, and **posture detection** using mobile sensors and Firebase ML Kit, achieving over **85% accuracy**.
- Enabled personalized goal-setting, diet planning, and corrective activities with integration of the **Health Connect API** for seamless health data aggregation.
- Built interactive analytics dashboards showing 7-day trends in calorie intake, burn, and steps, improving posture and helping users lose or gain weight by **15–20%** through guided correction.

### CricMate – Bowling Analysis & Coaching App

GitHub

*Kotlin, Jetpack Compose, Firebase ML Kit, TensorFlow Lite, Node.js, Express.js, MongoDB*

- Developed a dual-camera cricket analysis app for bowlers with frame-by-frame ML analysis of **2000+ frames**, generating **3D ball trajectories** using Scene View.
- Integrated real-time visualizations and interactive charts to display line and angular performance metrics, reducing coach review time by **40%**.
- Built a role-based module for Players and Coaches and added an event system that shortlists players based on test scores and historical performance, increasing selection speed by **30%**.

### ClinicEase – Healthcare Management System

GitHub

*React Native, Spring Boot Microservices, Spring Security, Eureka, OpenFeign, API Gateway, MySQL*

- Designed a microservices-based healthcare system using **Spring Boot**, with **Eureka service discovery**, **OpenFeign** for inter-service communication, and **API Gateway** for routing and load balancing across modules.
- Implemented secure JWT-based authentication via **Spring Security**, enabling patients to **book appointments**, attend **video consultations (WebRTC)**, and view medical history, test reports, and prescriptions in one place.
- Implemented role-specific dashboards where **doctors can manage bookings, view and add prescriptions**, and set unavailable dates, while **admins can add doctors and assign specialization/body parts**.

## ACHIEVEMENTS

- Led the team to victory in the Hack4Health National Level Hackathon on Unstop, competing against approximately 1000 teams, focusing on innovative healthcare solutions.
- Successfully led and won a College-Level Hackathon by delivering an impactful project for training and placement data management.