

Upkar Singh

Chandigarh, India

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SUMMARY

Computer Science graduate with hands-on Flutter development experience gained through an industry internship and an IEEE-published research contribution. Proficient in building cross-platform mobile applications using Flutter, Dart, Firebase, and REST APIs, with a strong foundation in DSA and OOP. Passionate about building responsive, user-centric mobile applications and solving real-world problems through technology.

SKILLS

Languages: Dart, C++, JavaScript, SQL

Mobile Development: Flutter, Cross-Platform App Development, Responsive UI Design

State Management: Provider

Backend Integration: REST APIs, JSON, HTTP

Firebase: Authentication, Cloud Firestore, Storage, Cloud Messaging (FCM)

Local Storage: Hive, Shared Preferences

Architecture: MVVM, Clean Architecture

Database: MySQL, SQLite, Firestore

Tools: Git, GitHub, Postman, Android Studio, VS Code

Core CS: Data Structures, Algorithms, Object-Oriented Programming (OOP)

WORK EXPERIENCE

Flutter Mobile Development Intern

Medoc Pvt. Ltd., Chandigarh, India

Oct 2024 – Dec 2024

- Contributed to a production Flutter healthcare application published on the Google Play Store by developing and maintaining Home, Login, and Nurse Dashboard screens, ensuring responsive UI and seamless user experience across Android devices.
- Integrated REST APIs and Firebase services to fetch, store, and display real-time healthcare data, enabling dynamic content updates and improving application reliability.
- Implemented Provider-based state management and reusable UI components, collaborating with the development team to resolve bugs and improve application performance and maintainability.

PROJECTS

SmartRoute – Multi-Criteria Route Optimization System

Flutter | Dart | C++ | OpenStreetMap API | Graph Algorithms

[Live Demo](#) | [GitHub](#)

- Developed a cross-platform Flutter application for Android and iOS implementing Dijkstra's Algorithm to optimize routes based on distance, travel time, and fuel efficiency.
- Integrated OpenStreetMap APIs for real-time map rendering and route visualization, delivering an interactive navigation experience across mobile and web platforms.
- Designed responsive UI components and route comparison workflows, enabling users to evaluate and select optimal travel paths efficiently.

Automated Loan Approval & Risk Assessment System

MySQL | Node.js | Express.js | Tailwind CSS

[Live Demo](#) | [GitHub](#)

- Built a dynamic risk-scoring engine using MySQL Stored Procedures, Triggers, and Views to evaluate applicant financial profiles and automate loan approval decisions.
- Developed RESTful API endpoints using Node.js and Express.js, enabling efficient data processing and seamless frontend-backend communication.
- Designed a responsive user interface using Tailwind CSS, improving usability and streamlining the loan assessment workflow.

PUBLICATIONS

Multi-Class Skin Disease Classification Using DCNNs and AI

Oct 2025

IEEE 6th Global Conference for Advancement in Technology (GCAT)

[View Paper](#)

- First-authored IEEE research demonstrating the application of Deep Convolutional Neural Networks (DCNNs) and transfer learning for accurate multi-class skin disease classification.

EDUCATION

Bachelor of Engineering in Computer Science and Engineering

Chandigarh University, Punjab

Aug 2022 – May 2026

CGPA: 7.47

Senior Secondary (CBSE)

ABR Foundation School, Sasaram

Mar 2022

Percentage: 71%