Akshat Singh
Student

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Education

Delhi Technological University   *New Delhi | 08/2024 – 05/2028*
Bachelor of Technology - **Computer Science and Engineering**

DPS Vasant Kunj   *New Delhi | 2012-2024*
High School and Middle School Diploma

Projects

CarbonEye | Deforestation & ESG Reporting App

- **Tech Stack: Flutter, Riverpod, FastAPI, Python, Sentinel Hub API, flutter_map, pdf**
- **Engineered a full-stack, cross-platform mobile app to provide real-time intelligence on global deforestation using satellite imagery.**
- **Developed a Python/FastAPI backend to orchestrate analysis, process satellite imagery for vegetation changes (NDVI), and assess deforestation severity.**
- **Implemented an interactive map with custom drawing tools for region selection, a personalized watchlist, and a tiered alerting system for detected events.**
- **Integrated a professional PDF reporting feature for ESG analysis, enabling users to generate, print, and share detailed impact assessments.**

Hand2Hand | Geo-Enabled Donation Coordination App

- **Tech Stack: Flutter, Firebase (Firestore, Authentication), Google AI (Gemini API), geolocator, provider**
- **Developed a community-driven mobile app to connect resource donors with the nearest NGOs, streamlining the donation of food, clothing, and medicine.**
- **Architected a smart notification system that identifies the closest NGO using real-time location data and implements a fallback logic to automatically re-route declined requests.**
- **Built the backend on Firebase, designing Firestore collections for users, donations, and notifications to ensure scalable and real-time data synchronization.**
- **Integrated the Gemini API for intelligent assistance and designed separate, tailored user flows and dashboards for Volunteers and NGOs.**

Color Harmony | Creative Suite & Accessibility Tool

- **Tech Stack: Flutter, provider, shared_preferences, palette_generator, image_picker, WCAG**
- **Developed a feature-rich creative tool for web and mobile, enabling users to generate, save, and export color palettes based on 6 different harmony algorithms.**
- **Engineered a professional accessibility checker to test color combinations against WCAG (AA/AAA) standards, providing real-time contrast ratio analysis.**
- **Implemented an image color extraction tool using the palette_generator library and created a seamless pattern generator for design projects.**
- **Built multiple creative modules, including a digital drawing pad and an animated battle arena**

where users' drawings compete.

Skills

- **Programming:** Python, Dart, C/**C++,**Html, CSS
- **Frameworks/Tools:** Flutter, Firebase, PyQt5, Tkinter, OpenCV, PIL, StreamBuilder
- **Dev Tools:** VS Code, Homebrew, Git

Profile

Flutter Developer | Frontend , Backend & API Integration

Passionate Flutter developer with hands-on experience building many apps, including API-integrated projects with fully functioning backends.

Strong in UI/UX, state management, and Firebase. Proficient in handling REST APIs and responsive mobile applications.