Rajat Dagar

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Education

Jaypee Institute of Information Technology — Noida, India
Bachelor of Technology - Computer Science — *July 2023 - May 2027*

Technical Skills

Languages: C++, Java, C, Kotlin, PHP, HTML, CSS, JavaScript, SQL
Frameworks and Libraries: Jetpack Compose, Android Jetpack(Room, Navigation, LiveData, ViewModel), MVVM Architecture, Retrofit, Coil, Gson, Sealed Classes ,FastAPI
Developer Tools: Visual Studio, Android Studio, GitHub, Git
Database: MySQL, Room Database (SQLite)
Skills: Data Structures and Algorithms, DBMS, OOPs, App Development

Projects

Weather App | *Kotlin, Jetpack Compose, MVVM, Retrofit, Coil* — February 2025

- Developed a modern Android weather application using **Kotlin** and **Jetpack Compose** with **MVVM architecture**.
- Integrated **OpenWeatherMap API** via **Retrofit** to fetch real-time weather data.
- Handled API responses with **sealed classes**, **LiveData**, and **try-catch** blocks for robust error handling.
- Utilized **Coil** for loading weather condition icons, enhancing UI responsiveness and performance.
- Achieved a clean, user-friendly design optimized for various screen sizes and orientations.

Face Detection App | *Kotlin, ML Kit, CameraX, Android* — January 2025

- Built an Android application for real-time face detection using **Google ML Kit** and **CameraX**.
- Implemented live camera preview and integrated face detection API to detect and track multiple faces with bounding boxes.
- Processed image frames in real-time while maintaining high performance and low latency on mobile devices.
- Handled edge cases such as multiple faces, partial visibility, and dynamic lighting conditions.
- Optimized the UI for clarity, ensuring detected faces are accurately marked and labeled on-screen.

Wishlist App | *Kotlin, Room Database, Jetpack Compose, MVVM* — November 2024

- Created an offline-first Android Wishlist app using **Jetpack Compose** and **Room Database** to manage user-selected items.
- Designed intuitive UI screens for adding, editing, and deleting wishlist items, backed by a **SQLite database**.
- Structured the code using **MVVM architecture** and lifecycle-aware components for scalability and maintainability.
- Used **StateFlow** and **LiveData** to keep the UI reactive and in sync with database changes.
- Ensured smooth performance and responsiveness across devices with minimal memory footprint.

Recipe App | *Kotlin, Jetpack Compose, MVVM, Retrofit, API, Coil* — September 2024

- Developed a feature-rich Android Recipe app using **Jetpack Compose** and the **MVVM architecture**.
- Fetched recipe data from external APIs using **Retrofit 2** with robust error handling and response parsing.
- Used **Coil** to load recipe images efficiently and displayed them in a visually engaging UI.
- Enabled smooth navigation between recipe categories, detail screens, and ingredient lists, improving user experience.
- Implemented **Parcelable data classes**, **sealed classes**, and **suspend functions** for asynchronous data handling.