

Aayush Kumar

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Education

Indian Institute of Technology (Indian School of Mines), Dhanbad <i>Bachelor of Technology in Mechanical Engineering (GPA: 8.04 / 10.00)</i>	2022-2026 Dhanbad, Jharkhand
T.R.S Public School <i>Senior Secondary Education (CBSE Board)-Percentage 96.2%</i>	2021-2022 Ghaziabad, Uttar Pradesh
T.R.S Public School <i>Secondary Education (CBSE Board)-Percentage 93.8%</i>	2019-2020 Ghaziabad, Uttar Pradesh

Projects

- ChatRoom** | Kotlin, Jetpack Compose, Firebase Authentication, Firestore, MVVM, Jetpack Navigation [Github](#)
- Developed a real-time chat application with secure Firebase Authentication and Firestore integration, ensuring data privacy and seamless multi-device synchronization.
 - Implemented MVVM architecture and Jetpack Navigation to optimize scalability and enhance user experience through intuitive in-app navigation.
- JetStocks** | Kotlin, Jetpack Compose, Dagger Hilt, Retrofit, Moshi, Alpha Vantage API, RoomDB, MVVM [Github](#)
- Built a stock tracking app displaying real-time data via Alpha Vantage API, with offline support through RoomDB, ensuring reliable and efficient performance.
 - Leveraged Dagger Hilt for dependency injection, and implemented Retrofit with Moshi for streamlined network communication and data parsing.
- JetWeather** | Kotlin, Jetpack Compose, Dagger Hilt, Retrofit, Moshi, Open-Meteo API, MVI, Clean Architecture [Github](#)
- Developed a weather app integrating real-time API data, delivering accurate forecasts through a sleek, responsive UI built with Jetpack Compose.
 - Used Clean Architecture and MVI pattern for maintainable code, with Dagger Hilt for modular dependency injection and optimized performance.

Technical Skills

Programming Languages: Kotlin, C++
Core Concepts: Data Structures and Algorithms, Object-Oriented Programming (OOP), Clean Code Practices
Android Development: Jetpack Compose, Material3 UI Components, Android SDK, ViewModel, Coroutines, RoomDB
Frameworks and Libraries: Retrofit, Dagger Hilt, Moshi
Tools and Version Control: Gradle, Git, GitHub, CI/CD
Backend Technologies: Firebase (Authentication, Realtime Database, Firestore, Cloud Functions), REST APIs
Architectures and Design Patterns: MVVM (Model-View-ViewModel), Model-View-Intent (MVI), Clean Architecture
Simulation and Modeling: Simulink, Stateflow

Certificates

Certificate in App Development - Udemy	Link
Certificate in MATLAB Onramp - Mathworks Training Services	Link
Certificate in Simulink Onramp - Mathworks Training Services	Link
Certificate in Stateflow Onramp - Mathworks Training Services	Link

Social Engagements

Organiser: Concetto'23 (Techno-Management Fest), IIT(ISM) Dhanbad
Club Member: Smart Manufacturing Club of IIT(ISM) Dhanbad.
Extra-curricular: Singing-Participated in group singing competition organised by Bharat Vikas Parishad, Teaching-engaged in tuition teaching to school student.