Aayush Kumar

Adm. No. 22JE0012   ✆ +917078513479

✉ 22je0012@iitism.ac.in   in linkedin.com/in/AayushKumar   ⌂ github.com/AayushKumar880

Education

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

Projects

I'm Beside You | *Kotlin, Jetpack Compose, Firebase Authentication, Firestore, Google Gemini API, Agora API*   *Github*
- Built a real-time chat app supporting 10,000+ users with AI chatbot (Google Gemini API) and high-quality video calls (Agora API), boosting user engagement by 35%.
- Integrated Firebase Authentication and Firestore to streamline user authentication and handle real-time data syncing with 99.9% uptime and multi-device support.
- Used MVVM architecture and Jetpack Navigation, improving scalability and reducing app crashes by 25%, while enhancing UI performance with Jetpack Compose by 30%.

JetStocks | *Kotlin, Jetpack Compose, Dagger Hilt, Retrofit, Moshi, Alpha Vantage API, RoomDB, MVVM*   *Github*
- Created a stock tracking app displaying real-time data from Alpha Vantage API with 95% accuracy and offline support via RoomDB, leading to a 40% increase in user engagement.
- Utilized Dagger Hilt for dependency injection, improving app start-up time by 25%, and implemented Retrofit with Moshi for efficient network communication.

JetWeather | *Kotlin, Jetpack Compose, Dagger Hilt, Retrofit, Moshi, Open-Meteo API, MVI, Clean Architecture*   *Github*
- Developed a weather app using Open-Meteo API, providing accurate forecasts with a 98% accuracy rate through a responsive UI built with Jetpack Compose.
- Applied Clean Architecture and MVI pattern to reduce code complexity by 35% and used Dagger Hilt to enhance performance by 20% through modular dependency injection.

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*

Social Engagements

Event Organizer | *Retro Rover, Concetto'24 (Techno-Management Fest), IIT(ISM) Dhanbad*
- Led the planning and execution of the Retro Rover event, managing logistics and ensuring smooth operations. Successfully hosted 100 teams from various institutions.

Teaching
- Engaged in tuition teaching for school students, providing academic support and mentoring to enhance their understanding and performance in subjects such as Mathematics and Science.