Akshat Singh

+91-7030780285 | singhakshatwork44@gmail.com | Linkedin **(link)** | Github **(link)** | Leetcode **(link)**

EDUCATION

Vellore Institute of Technology(VIT) Bhopal University	CGPA-8.36
Btech Computer Science Engineering	*2022 – 2026*
School of Scholars , Nagpur	79%
CBSE Board 12th	*2022*
School of Scholars , Nagpur	94%
CBSE Board 10th	*2020*

PROJECTS

Ragna — Ongoing

- *Kotlin, Jetpack Compose, MVVM, Retrofit, Coil , LiveData-ViewModel,FireBase, Gemini API, RAG (Retrieval-Augmented Generation), Markdown Rendering*
- Built an AI app using Jetpack Compose and MVVM architecture with clean state management integrating gemini's text , image analysis model.
- Implemented multi-session chat support with dynamic titles and deletion via a side drawer.
- Added Markdown rendering for model responses and image input via gallery pick
- Designed role-based message UI for clear user vs AI interaction.
- Next integrating Retrieval-Augmented Generation (RAG) for contextual, knowledge-grounded AI responses.

NewsApp — January – February

- *Kotlin,Jetpack Compose, MVVM, Retrofit, Coil (Async Image), LiveData-ViewModel, Room DB,*
- Built a modern news app using Kotlin, Jetpack Compose, and MVVM architecture with a responsive UI inspired by Google News.
- Integrated NewsAPI using Retrofit to fetch top headlines with filters for country, language,andcategory.
- Used ViewModel, LiveData, and Compose State for reactive UI updates and smooth user experience.
- Implemented a bottom sheet filter, favorites, and share features with persistent storage and clipboard support.
- Designed key UI components including Bottom Navigation, article detail screen, and image loading via Coil.

Notes App — Ongoing

- *Kotlin, Jetpack Compose, MVVM Architecture, Room DB, ViewModel, State Management,Firebase DB*
- Developed a Notes App using Kotlin, Jetpack Compose, and Room Database for offline note storage with CRUD functionality.
- Implemented MVVM architecture with ViewModel and Compose state for real-time UI updates and data management.
- Designed a clean, user-friendly UI with features like note creation, editing, deletion, and persistent local storage.
- Planned integration of Firebase Realtime Database for cross-device synchronization and cloud backups along with feature like voice notes .

ACHIEVEMENTS

Solved 400 problems various Data Structures and Algorithm on platforms like Leetcode and GFG.
Completed Supervised Machine Learning: Regression and Classification By DeepLearning.
TATA Crucible Campus Quiz 2024.

TECHNICAL SKILLS

Languages: Java, Python, C++,HTML/CSS, Kotlin
Frameworks: Node.js, Flask, Material-UI, FastAPI,Room , Retrofit , Dagger-Hilt , Android SDK
Developer Tools: Git,Github, Amazon Web Services, VS Code,Android Studio,Firebase