

# SUMIT BEHERA

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[github.com/sumitbehera1508](https://github.com/sumitbehera1508) | [leetcode.com/u/sumitbehera1508](https://leetcode.com/u/sumitbehera1508)

## Education

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| • Odisha University Of Technology And Research | Nov. 2022 – June 2024 |
| Master of Computer Applications (8.89/10)      | Bhubaneswar, Odisha   |
| • Bhadrak Autonomous College                   | Aug. 2019 – June 2022 |
| Bachelor of Science in Mathematics (8.66/10)   | Bharak, Odisha        |

## Projects

### Indus Chat

June 2024

- Developed a cross-platform Chatting application using Compose multiplatform for Android and Desktop(Windows, OS X, Linux). Leveraged KMP for code sharing across platforms, improving development efficiency and code maintainability.
- Stores Messages in Realm DB for multi platform support and faster retrieval of data.
- MVVM separates UI-related data and business logic from the UI layer, which prevents data reload and data loss each time any configuration changes happen.
- WebSockets allow for real-time communication, which means messages are sent and received instantly, creating a smoother and faster chat experience.

**TechStack:** Kotlin, Coroutines, Flow, Koin , Ktor-client, Ktor-server, RealmDB, Jetpack compose, Voyager, MongoDB, MVVM

### Hand Sign Detection

May 2024

- Developed a real-time hand sign detection project using OpenCV and MediaPipe. Leveraged OpenCV for computer vision tasks like image processing and MediaPipe's hand landmark detection model to identify hand gestures from the camera.
- To train the model, I have generated a dataset of 100–400 images of me demonstrating each of the English alphabet's hand signals. A 42-attribute dataset is generated based on the 21 key hand landmarks. Whereas the odd indices display the corresponding Y-coordinates, the even indices display the X-coordinates.
- 99.86% accuracy was obtained using the RandomForest algorithm. This initiative can help improve communication with those who are deaf or mute since sign languages can be difficult to understand.

**TechStack:** Python( Matplotlib , OpenCV, Mediapipe, Pickle, Numpy, Scikit-learn) , ML Algorithms( RandomForest, SVM, KNN, LogisticRegression ).

### News App

March 2024

- Developed a news application for Android using Kotlin. The app fetches news articles from various sources using News API and presents them in a user-friendly and efficient manner.
- Responses from the news API are retrieved using Retrofit and saved in RealmDB for offline access.
- I have used Webview to display the web pages within my application.
- By minimizing redundancy, use cases help to increase the maintainability and testability of programs.

**TechStack:** Kotlin, Coroutines, Flow, Retrofit, Jetpack Compose, RealmDB, Webview, MVVM, Dagger-Hilt, COIL, Use Cases

## Technical Skills

Languages: C++ (primary), Python, Kotlin, Go

Tools / Platforms : VS Code, Android Studio, Git, GitLab, GitHub, Google Colab, Jupyter Notebook

Technologies : Android( RoomDB, RealmDB, Firebase, ktor, Retrofit, MVVM, MVI , Activity, Fragment, Jetpack Compose, Webview, Dagger-Hilt, koin, Dependency injection, Voyager , JitPacks, Flow , COIL , KMP )

## Courses / Certifications

- Android : [Android using Kotlin](#) , [Android App Development](#)
- Python : [Python Essentials 1 \(Cisco\)](#) , [Python Essentials 2 \(Cisco\)](#) , [Python\(Hacker rank\)](#)
- C++ : [C++ \(Coding Ninjas\)](#) , [CPA Programming essentials in C++](#)

## Achievements

- GATE(DA) 2024 qualified with rank 1588.
- Odisha Joint Entrance Examination (OJEE) MCA 2022 secured Rank 4.
- 850+ Problems solved in Leetcode.