

Rishika Paul

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EDUCATION

Chandigarh University [QS World University Ranking 231]

B.E in Computer Science and Engineering, **CGPA: 8.4/10.0**

Mohali, Punjab

August 2023 – Expected June. 2027

EXPERIENCE

HackByte 3.0

Madhya Pradesh

Implementation

April 2025

- Awarded Best Beginner Team out of 128+ teams for building a smart musical glove using gesture-based input and multi-instrument sound playback.
- Designed and implemented the PyQt5-based desktop UI with real-time sensor data display and audio feedback.
- Developed backend logic in Python to process IMU, flex, and ToF sensor inputs, enabling accurate chord recognition across guitar, piano, and drum datasets.

PROJECTS

Harmoni Hand [Arduino, Python, Sensors (IMU, Flex, ToF)]

April 2025

- **Problem:** Traditional music learning requires different instruments, physical dexterity, and costly hardware—limiting access for beginners and differently-abled users.
- **Solution:** A smart glove-based musical interface that maps hand gestures and movements to chords in real-time, enabling audio playback for guitar, piano, and drums.
- **Designed With:** Cross-instrument gesture recognition—learn a gesture once and apply it across instruments for real-time feedback and sound. Increases accessibility by replacing complex instruments with a low-cost, portable glove that enables intuitive, gesture-based learning for all skill levels.

MedShare [Kotlin, Java (Spring Boot), MongoDB, AWS]

January 2025 - April 2025

- **Problem:** Limited access to essential medicines during late hours or emergencies in hostels and apartments.
- **Solution:** A real-time, peer-to-peer mobile app that allows users to request and share medicines nearby using location-based matching and instant communication.
- **Designed With:** Privacy-focused architecture and a clean, responsive user interface for quick emergency handling.

TECHNICAL SKILLS

Languages(Proficient): Java, Python, MySQL

Frameworks(Proficient): Jetpack Compose, Flask

Languages(Familiar): C, C++, Kotlin, Latex

Other Skills: Microsoft tools(Powerpoint, Word, Excel), Figma, Canva

SOFT SKILLS

Strong analytical and problem-solving mindset

Effective team collaboration and clear technical communication

Fast learner, adaptable to new technologies and frameworks

Takes ownership with a high sense of responsibility

Detail-oriented in implementation and design

AWARDS AND ACHIEVEMENTS

- **Achiever's Award 2025 at Chandigarh University**
- **Hackathon Winner at HackByte 3.0**
- **Gold Medalist in International Mathematical Olympiad(IMO) in 2020**