

# ATHARVA MUTKULE

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🐙 <https://github.com/killerz11>

## Technical Skills

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**Languages:** Java, Javascript, Typescript, C++, C, Python, SQL, Verilog

**Frameworks and Platforms:** Android, Kotlin Multiplatform, Jetpack Compose, Firebase

**Tools and Technologies:** WebRTC, Unity, GCP, Quartus, Data Structures and Algorithms

## Projects

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**Rangoli Making Robot (FireBird V – ATmega2560) | Video Link** *Jul 2025 - Nov 2025*

- Designed and programmed an autonomous Rangoli making robot using FireBird V powered by ATmega2560 microcontroller.
- Implemented precise motor control, path planning, and drawing algorithms to create accurate geometric and artistic patterns.
- Integrated embedded C programming, sensor calibration, and real-time motion control for smooth and repeatable drawings.

**OfflineLLM: Privacy-First AI Assistant | Google Play Store link** *Nov 2024 - Jan 2025*

- Developed an offline Large Language Model (LLM) assistant running fully on-device, ensuring strong data privacy.
- Designed a lightweight inference pipeline enabling real-time responses and semantic search on Android.
- Scaled organically to 30k+ users using optimized Java/Kotlin pipelines and on-device AI inference.

**FocusGuard: Android Launcher | Google Play Store link | GitHub link** *Jul 2024 - Sep 2024*

- Built a custom Android launcher to reduce phone addiction by force-stopping distracting apps via user-defined rules.
- Implemented global payment integration and intelligent app control mechanisms.
- Tech Stack: Kotlin, Java, Android

## Experience

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**Genzopia Solutions LLP** *Jan 2025 - Dec 2025*

*Android Developer*

- Led a team of 3+ members and owned end-to-end development of real-time communication features.
- Integrated WebRTC-based peer-to-peer video calling, managing signaling, media streams, and connection lifecycle.
- Implemented a random video calling system with real-time user matchmaking and seamless session transitions.

## Achievements

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- Published 3+ Android applications on the Google Play Store with a global user base.
- Winner of 5+ national and college-level hackathons for innovative engineering solutions.

## Education

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**Nutam Maharashtra Institute of Engineering and Technology**

Bachelor of Engineering in Electronics and Telecommunications