

# VARSHIT TYAGI

B.Tech Student specializing in AI and Mobile Development

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## PROFESSIONAL SUMMARY

B.Tech student specializing in AI, mobile, and backend development with experience building scalable applications using **Kotlin Multiplatform, Flutter, Spring Boot**, and modern AI frameworks. Spearheaded cross-platform application development, improving mobile performance and reducing development time by 25%. Passionate about privacy-preserving AI, distributed systems, and building production-ready software.

## WORK EXPERIENCES

### Software Development Engineer Intern | Internship

Mar 2026 - Jul 2026

*Theradive* On-site • India

- Designed and developed a scalable therapist consultation platform using **Next.js** and **Supabase**, streamlining patient onboarding and appointment management, resulting in an **80% reduction in manual paperwork**.
- Implemented **Role-Based Access Control (RBAC)** and **Row-Level Security (RLS)** for 5+ user roles, ensuring secure access to sensitive healthcare data and enhancing compliance.
- Optimized backend queries and database indexing, achieving a **60% reduction in API response times** to deliver a faster, more responsive user experience.

*Technologies / Skills Used : Next.js, Supabase*

## PROJECTS

### Proctor - AI powered Student Monitoring & Complaint System

2023 - Present

*Role : Lead Full Stack Developer*

- An AI-powered student discipline platform managing **100K+ student records** and behavioral reports.
- End-To-End complaint management system with tracking, audit logs, and automated escalation workflows.
- Engineered a live monitoring dashboard with sub-second event updates using event-driven architecture.
- Designed scalable REST APIs and PostgreSQL schema supporting **1K+ concurrent operations/sec**.

*Technologies / Tools Used : Next.js, Spring Boot, PostgreSQL*

### Vimora - AI Voice Assistant | 🌐 W

Mar 2025

*Role : Backend & Agentic AI Developer*

- Deployed peer-to-peer **WebRTC** communication system establishing call sessions in **□2–3 seconds** via custom signaling exchange.
- Optimized multi-channel streaming handling audio, video, and text events concurrently (**□30+ events/sec** signaling throughput).
- Reduced perceived response delay to **□600–900ms** by optimizing media buffering and async processing.
- An automatic reconnection & ICE renegotiation recovering dropped sessions within **2 seconds** on network fluctuation.

*Technologies / Tools Used : Next.js, Android, Jetpack Compose, WebRTC*

## SKILLS

<b>Databases :</b>	PostgreSQL, MySQL, MongoDB
<b>Frameworks &amp; Libraries :</b>	Next.js, Flutter, Jetpack Compose, Tauri, Spring Boot, Ktor
<b>Languages :</b>	Hindi, English
<b>Programming Languages :</b>	Java, Kotlin, C, Dart, JavaScript, TypeScript, SQL, Python
<b>Soft Skills :</b>	Leadership, Problem Solving, Time Management, Collaboration, Decision Making
<b>Tools &amp; Platforms :</b>	Docker, Kubernetes, Git, Linux, GitHub, CI/CD

## EDUCATIONS

### Meerut Institute of Engineering and Technology | Meerut, India

Sep 2023 - May 2027

*B.Tech*

*CGPA : 7.9*

- B.Tech in Computer Science and Engineering**

### St. Charles Inter College, Sardhana | Meerut, India

2023 - 2023

*Senior Secondary*

*CGPA : 72%*

- Percentage 72%** in Science

### St. Charles Inter College, Sardhana | Meerut, India

2021 - 2021

*Secondary*

*CGPA : 76%*

- Percentage 76%**

## CERTIFICATIONS

- SQL (Advanced) : [CERTIFICATE](#)
- Rest API (Intermediate) : [CERTIFICATE](#)
- Java (Basic) : [CERTIFICATE](#)

## AWARDS & ACHIEVEMENTS

- Ranked among the top 4 teams in 3 hackathons, achieving **2nd runner-up in Trikon 2.0**
- Earned the **5 Star Java Badge** on HackerRank