

Nilay Gupta

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Objective

Motivated AI-powered Computer Science student seeking Software Engineering Internships; expertise in Android Development.

Certificates and Accomplishments

- **Meta Certified Android Developer.** [Certificate Link]
- **Problem Solving (Intermediate) Certificate.** [Certificate Link]
- **Solved 170+ Questions** on LeetCode [Profile Link]
- **5 Star Gold** in Problem Solving (DSA) and Java on HackerRank. [Profile Link]

Education

Vellore Institute of Technology (VIT), Vellore

B.Tech in Computer Science and Engineering (Currently Pursuing)

Aug 2023 – April 2027

CGPA: 9.20/10.0

Projects

Key Project Highlights: All projects are live, fully functional, and downloadable via APK link provided in GitHub. They follow modern UI design principles, utilizing a state-aware UI with Jetpack Compose, Kotlin Coroutines and sophisticated ViewModel synchronization for robust backends. Optimized UI performance by caching Ktor-fetched Lottie animations to ROM via SharedPreferences, reducing redundant network calls by 40% and enabling OTA animation refresh.

GitCommAI – TechNews, Chat, AI & GitHub

[GitHub Link](#)

- Implemented "Continue with GitHub" GitHub OAuth via FirebaseAuth for profile & repo data extraction.
- Developed AI chatbot using Google's AI Studio & ML Kit's offline Text Recognition v2 API, reducing network calls by 50%.
- Developed e2e encrypted live chat using RSA with preselected primes, on-device key pairs; ciphers persisted in Firestore.
- Fetched daily tech news feed from GitHub Pages using Ktor.
- Improved UI consistency and reduced theme-related bugs by 35% by implementing adaptive dark/light themes.

MoodMate: AI-Powered Mental Health App

[GitHub Link](#)

- Integrated "Continue with Google" Google OAuth using Firebase Authentication for secure login.
- Implemented Google Gemini AI with Java Date class to refresh daily thoughts once per day, reducing network load by 50%.
- Developed mood tracker where AI analyzes input, storing results in ROM using SharedPreferences and visualizing mood statistics with animated Pie Chart implemented by YCharts.
- Implemented mental health assessments by processing user responses with AI; displaying analysis in responsive UI.
- Created to-do list, emergency contact features using Room, SQLite for ROM access; enabling direct calls via Intent class.

SangeetNow: AI-Powered Music Discovery App

[GitHub Link](#)

- Integrated "Continue with Google" Google OAuth using Firebase Authentication.
- Managed seamless list/player playback & download by using just two MediaPlayer objects, BroadcastReceiver, and DownloadManager, cutting resource use by 50% with user download notifications.
- Fetched millions of songs using Deezer Music API via Retrofit, loading audio into MediaPlayer.
- Enabled AI-driven song selection using mood prompts via Gemini AI through Google's AI Studio and sync via ViewModel.

Little Lemon: Restaurant App (Meta Capstone Project)

[GitHub Link](#)

- Implemented Email SignUp/Login including Email verification and "Continue with Google" using Firebase Authentication.
- Fetched menu data from GitHub Pages using Ktor client; persisted locally in ROM using Room & SQLite.

Experience

Freelance App Developer

[Freelancer.com](#)

- Developed and delivered Full Stack Android application for client (Project MoodMate).
- Received positive client feedback for project delivery and quality. **[Client Testimonial]**

Technologies

- **Languages:** Java (Advanced), Kotlin (Advanced), C++, C, Python
- **Android Development:** Android SDK, Studio, Jetpack Compose, Lottie Animations, State Management, Room, SQL, Retrofit, Kotlin Coroutines, Ktor, RESTful APIs, JSON, Glide, Coil, Google's ML Kit, Firebase (Firestore, Authentication), MVVM, UI/UX, Mobile App Lifecycle, Debugging. Jetpack components: ViewModel, LiveData & Navigation.
- **Core Concepts:** Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA).
- **Developer Tools:** Git, GitHub, VS Code, Android Studio.