

SOUVIK BAGCHI

ML Engineer & Full-Stack Developer | Android Architecture | Google Cloud

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[Portfolio Site](#) | [GitHub Profile](#) | [LinkedIn Profile](#)

EDUCATION

Sikkim Manipal Institute of TechnologySikkim, India

Bachelor of Technology in Computer Science (Specialization: AI & Data Science)July 2024 – July 2028

Relevant Coursework: Data Structures & Algorithms, Design & Analysis of Algorithms, Operating Systems, Object-Oriented Java Programming, Database Management Systems (DBMS), Machine Learning, Probability & Statistics.

TECHNICAL EXPERIENCE

ShadowFoxVirtual

Android App Development InternJune 2026 – June 2026

- Engineered native Android application components using Kotlin, Jetpack Compose, and MVVM architecture, ensuring strict separation of concerns and robust UI layer reactivity.
- Optimized asynchronous data streams using Kotlin Coroutines and application state retention mechanisms, reducing runtime memory overhead during intensive background processing cycles.

TECHNICAL PROJECTS

Voxtrona Music | Kotlin, Jetpack Compose, Clean Architecture, Sentry[Download]

- Designed and deployed a production-grade Android audio streaming application across 40+ modular components, securing 5,000+ active users and a 4.0/5.0 Play Store rating.
- Implemented Clean Architecture boundaries alongside MVVM to decouple business logic from UI rendering, reducing tech debt and accelerating feature iteration cycles.
- Integrated Sentry SDK for real-time error telemetry and automated crash monitoring, reducing production defect resolution times through structured stack trace analysis.

AI-Powered Catering Platform | Gemini 2.5 Flash, Firebase, Node.js, React[GitHub Repository]

- Captured 1st Place out of 30+ competing engineering teams at the SIGIL Hackathon by building a full-stack real-time order execution engine.
- Developed the asynchronous backend orchestration and live dashboard telemetry via Firebase, keeping client-server state synchronized under low-latency limits.

TECHNICAL SKILLS

- Languages:** Python, Java, Kotlin, TypeScript, SQL, C/C++
- Frameworks & Databases:** Android SDK (Jetpack Compose, MVVM, Clean Architecture), React, Next.js, Node.js, Express, MongoDB
- AI/ML & Data Systems:** PyTorch, TensorFlow, scikit-learn, XGBoost, SHAP, Statistics, Tableau, Advanced Excel
- Cloud & Tools:** Google Cloud (Vertex AI), AWS, Azure, Firebase, Docker, CI/CD, Git, GitHub, Sentry, Figma

LEADERSHIP & COMMUNITIES

Google | Student AmbassadorSept 2025 – Present

- Received formal Letter of Appreciation for community leadership and measurable cloud technology engagement on campus

Open Source Connect Global | Campus Lead Representative & Open-Source ContributorJan 2026 – Present

- Established the campus open-source foundation at SMIT, onboarding 15+ student developers into active codebases and mentoring 20+ peers on Git workflows and agile sprint practices.

HONORS & CERTIFICATIONS

NVIDIA Developer Program: Accepted into NVIDIA developer ecosystem with access to advanced GPU compute resources and research tooling.

AMD AI Developer Program: Selected for the program, gaining access to specialized hardware resources.

Deloitte Australia Data Analytics Simulation (Forage): Executed simulated data engineering tasks and designed performance metric dashboards using Tableau

Generative AI with Vertex AI: Built starter-level projects using prompt engineering on the Google AI Studio Platform.