Aditya Sharma

Android developer

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EDUCATION

Greater Noida Institute of Technology(Affiliated to IP University) 2022-2026
B.Tech in Computer Science & Engineering CGPA: 7.5
Class XII | Kendriya Vidyalaya (CBSE) 2021 • 72%

TECHNICAL SKILLS

Languages: Kotlin, Java, Python, C++
Android Development: Jetpack Compose, Android Studio, Material Design
AI / ML: TensorFlow Lite (on-device inference), ONNX (basics), Computer Vision
Backend: Spring Boot, Firebase, REST APIs
Databases: PostgreSQL
Tools: Git, GitHub, VS Code, Google Colab
Core CS: Data Structures & Algorithms(400+), OS(Intermediate)

PROJECTS

BharatKrishi - Offline On-Device Crop Disease Detection Github
Smart India Hackathon(SIH 2025 Finalist Selected Project)

- Developed a bilingual (English/Hindi) Android application using Jetpack Compose, featuring a clean, high contrast, and intuitive UI/UX tailored for farmer-centric agricultural workflows.
- Implemented an offline-first, on-device **MobileViT**-based model, optimized using **ONNX** and TensorFlow Lite for efficient mobile inference.
- Achieved **~96%** disease classification accuracy with ultra-low-latency inference (**~1 ms**) on low-end Android devices (Android 7+).
- Integrated a lightweight AI assistant with chat-based support and extended disease prediction to mobile, Drone, and satellite imagery under real-world deployment constraints.

JalSuraksha Github

- Built an Android app using Jetpack Compose for real-time flood and water-level monitoring.
- Used TensorFlow Lite to estimate river water levels from images via an AI-based gauge reader.
- Supported offline submissions with GPS validation and geofencing for reliable field data capture.
- Added analytics views and alert notifications for proactive flood-risk awareness.

ACHIEVEMENTS

- Finalist, Smart India Hackathon 2025 (First Attempt).
- Drafting a research paper focused on lightweight on-device computer vision models for mobile deployment.

INTERESTS

- Competitive programming and algorithmic problem solving (1369 rated). CodeChef
- Experienced applying structured thinking to identify gaps and design scalable, production-oriented solutions.