

# Akshat Garg

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## SUMMARY

Third-year CSE student building AI, IoT, and full-stack systems that turn real-world data into actions. Projects span ML (TensorFlow, OpenCV), device telemetry, and cloud backends that improve safety, health, and agriculture. Strong in Python, Java, C++, JS (React, Node); comfortable with Linux, Git, Docker, and databases. Multilingual: English, Hindi, basic Japanese. Seeking roles where end-to-end product thinking and fast execution matter.

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, JavaScript/TypeScript

**Web/Cloud:** React, Node, Express, FastAPI, HTML/CSS, REST, Firebase, MongoDB, SQL

**ML/Tools:** TensorFlow, Keras, scikit-learn, OpenCV, Pandas; Git, Docker, Linux

## PROJECTS

### Nourishfy – Nutrition & Grocery Optimizer

Jun 2025 – Jul 2025

*Cross-Platform AI App*

*React, Node, Firebase, Android (Kotlin), iOS (Swift), Gemini 2.5 Flash*

Built web, Android, and iOS apps that generate diet plans & grocery lists from user goals; Firebase backend with auth, storage, and REST APIs.

Implemented parametric nutrition rules and ML suggestions; leveraged **Gemini 2.5 Flash** for meal-plan reasoning and food item suggestions.

### ThermoSense – Cross-Platform Sensor Dashboard

Jul 2025

*Device Telemetry & Predictive Analytics*

*FastAPI, React, Docker, Random Forest, Gemini 2.5 Flash*

Captured OS-level battery/CPU thermal metrics on macOS/Windows; RF model forecasts battery health (~90% acc.); used **Gemini 2.5 Flash** to analyze & summarize thermal patterns and model outputs.

### IntelliQrHelp – Smart Emergency Response

Jan 2025 – Feb 2025

*Health Hackathon*

*React, Firebase, QR API, ESP8266, Telegram Bot*

QR codes reveal critical medical data; one-tap SOS via Telegram/IoT button sends instant alerts to emergency contacts, reducing handover delays.

### AgriSense – Smart Farming System

Apr 2025

*IoT & ML*

*ESP32, React, Node, MongoDB, Python*

Deployed soil/temperature/humidity sensors to a Node.js hub and React dashboard; ML forecasts irrigation & crop health, enabling proactive alerts (~20% loss reduction).

## EDUCATION

### VIT Bhopal University

*B.Tech in Computer Science and Engineering (CGPA: 8.42/10)*

Bhopal, M.P., India

*Aug 2021 – May 2027 (Expected)*

### St. Luke's Sr. Sec. School

*Class XII (CBSE): 83%*

Solan, Himachal Pradesh, India

2023

### St. Luke's Sr. Sec. School

*Class X (CBSE): 90.17%*

Solan, Himachal Pradesh, India

2021

## CERTIFICATIONS

Oracle Certified Java Foundations Associate.

NPTEL – Introduction to Machine Learning (12-week).

Postman API Fundamentals Student Expert.

Google – Bits and Bytes of Computer Networking (Coursera).

TechBairn Full-Stack Web Development (Bronze).

HackerRank SQL (Basic).

Apna College DSA – Alpha (Java); PW Skills Decode DSA with C++.