

PRAKHAR GUPTA

Lucknow, Uttar Pradesh

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Education

Vellore Institute of Technology, Bhopal <i>Bachelor of Technology in Computer Science and Engineering — Cumulative GPA: 8.39</i>	2022 – 2026 <i>Bhopal, Madhya Pradesh</i>
City Montessori School <i>Class 12 ICSE — Percentage: 92%</i>	2020 – 2021 <i>Lucknow, Uttar Pradesh</i>
City Montessori School <i>Class 10 ICSE — Percentage: 94.16%</i>	2018 – 2019 <i>Lucknow, Uttar Pradesh</i>

Projects

Caching HTTP Proxy Server <i>Java, Spring Boot, Picocli, HTTP, Maven</i>	2024
<ul style="list-style-type: none">Engineered a caching HTTP proxy server using Spring Boot, reducing redundant API calls by up to 85% and decreasing average response time.Developed a robust caching and expiration logic that reduced memory usage by 40%, optimizing resource usage and enhancing API request efficiency.Implemented a command-line interface (CLI) with detailed logging for cache hits and misses, providing clear analytics and improving usability.	
Job Portal Web App <i>Java, JSP, Servlets, MySQL, HTML, CSS, JavaScript, AJAX</i>	2023
<ul style="list-style-type: none">Built a dynamic full-stack job portal, enabling users to create resumes, search for jobs, and manage applications from a single platform.Designed a responsive front-end using HTML, CSS, and JavaScript, integrating AJAX to reduce page load times by 60%, creating a seamless user experience.Optimized back-end logic and SQL queries, decreasing query execution time by 30% and improving system performance for user-centric features like application tracking.	
Coronary Calcium Detection and Scoring <i>Python, Flutter, U-Net</i>	2025
<ul style="list-style-type: none">Developed a system for detecting and scoring coronary calcium using advanced imaging techniques, contributing to early diagnosis of cardiovascular diseases.Utilized image processing algorithms to analyze CT scans, identifying calcified plaques in coronary arteries.Integrated visualization tools to display calcium scores and relevant metrics, aiding in clinical decision-making.	

Technical Skills

Languages: Java, Python, SQL
Frameworks & Libraries: Spring Boot, JSP, Servlets, Picocli
Databases: MySQL
Tools & Methodologies: Git, GitHub, Maven, Eclipse, NetBeans, PowerBi
Web Technologies: HTML, CSS, JavaScript, AJAX, REST API

Certifications

- Oracle Certified Professional: Java SE 11 Developer

Leadership / Extracurricular

- Event Organizer, "IoT Unleashed" at Advitya'23: Planned and coordinated a successful tech event with 200+ participants, demonstrating leadership and team coordination skills.
- Social Media Member at IoT Club, VIT Bhopal: Assisted in managing digital content and increased engagement on Instagram by 25% through targeted campaigns.