

HARSHIT KUMAR

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LinkedIn

Github

LeetCode

Education

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| • VIT Bhopal University | 2023 – 2027 |
| <i>B.Tech, Computer Science and Engineering</i> | <i>GPA: 7.3 / 10</i> |
| • Scottish Public School, Katihar, Bihar (CBSE Board) | 2022 – 2023 |
| <i>Class XII (Senior Secondary Education)</i> | <i>GPA: 6.3 / 10</i> |
| • Scottish Public School, Katihar, Bihar (CBSE Board) | 2020 – 2021 |
| <i>Class X (Secondary Education)</i> | <i>GPA: 8.0 / 10</i> |

Skills

Programming: C++, Java, Python

Web: HTML, CSS, React

Data & ML: Machine Learning, YOLO, OpenCV

Databases & OS: SQL, PL/SQL, Linux

Cloud: AWS

Projects

Sports Vision – Player Fitness and Performance Metrics

Nov 2024 – Dec 2024

- Built a real-time player tracking system using YOLO, Kalman Filter, and Deep SORT to analyze on-field movement patterns.
- Processed match video streams using OpenCV and trained computer vision models using TensorFlow and PyTorch.
- Derived performance metrics such as movement intensity and coverage to support training optimization and endurance analysis.

Progress Portal – Coding Progress and Performance Monitoring

Apr 2025 – May 2025

- Developed a centralized platform to monitor coding progress across LeetCode, CodeChef, Codeforces, GeeksforGeeks, and HackerRank.
- Collected and aggregated user data using APIs and scraping techniques, and visualized progress through interactive dashboards.
- Implemented weekly comparisons and leaderboards to help users track consistency and identify improvement areas.

Achievements

- Geodata Processing using Python (IIRS-ISRO)
- Finalist at HealthHackathon 2025 with Johns Hopkins University

Certifications

- AWS:** Certified Cloud Practitioner – Sep 2025
- AWS:** Technical Essentials – Sep 2025
- IIRS-ISRO:** Geodata Processing using Python – Jan 2024
- NPTEL:** Operating System and System Programming – Dec 2024
- Google:** Bits and Bytes of Computer Networking – 2024
- Vityarthi:** Python Essentials – May 2024