Ayush Kumar Singh

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in https://www.linkedin.com/in/ayush-kumar-singh-942990305 ◯ https://github.com/htttpsayush

https://leetcode.com/u/ayushjr_10/

EDUCATION

Bachelor of Technology - Computer Science   2023 – 2027
GL Bajaj Group Of Institutions, Mathura   Mathura, India
Percentage: 73.49

SKILLS

Languages
Java, Python, JavaScript, HTML/CSS, SQL.

Frameworks/Libraries
Flask, Django

Developer Tools
Git, GitHub, Docker, VS Code, Postman, OpenAPI

Others
MySQL, Data Structures and Algorithms, Operating Systems, Object-Oriented Design & Programming, Computer Networks, Database Management System, Machine Learning fundamentals.

PROJECTS

AI Push-Up Counter   12/2025 – Present
Python, MediaPipe, OpenCV
Spring Al | MongoDB |JPA| SQL
- Built an AI-powered push-up counter using MediaPipe Pose Tracking for real-time human pose estimation via webcam.
- Implemented joint-angle computation logic to detect push-up states and automate repetition counting.
- Explored computer vision fundamentals including landmark detection and live frame processing for fitness tracking.

KeyForge Password Manager
Python, CustomTkinter, Fernet Encryption, Bcrypt
- Developed a secure desktop password manager with modern dark-mode GUI for encrypted credential storage.
- Implemented Fernet encryption and bcrypt hashing with salted keys to ensure password confidentiality.
- Integrated OTP-based recovery and cryptographic random password generation to enhance account security.
- Designed isolated encrypted storage per user with search, clipboard copy, and visibility toggle features.

3D Storytelling Website
HTML, CSS, JavaScript, Antigravity
- Designed an immersive 3D scroll-based website leveraging Antigravity animations for interactive product storytelling.
- Implemented smooth scroll transitions and layered motion effects to enhance engagement and navigation flow.
- Built responsive layouts ensuring cross-device compatibility and modern UI storytelling experience.

CERTIFICATIONS & ACHIEVEMENTS

- Oracle Cloud Infrastructure 2025
  Certified AI Foundations Associate —
  Oracle University (Oct 2025)