

# Sandesh Shivaji Shinde

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## EDUCATION

<b>Bachelor of Technology in Information Technology</b>	Walchand College of Engineering, Sangli	9.08/10	<b>2023–2026</b>
<b>Diploma in Information Technology</b>	Government Polytechnic, Kolhapur	94.35/100	<b>2020–2023</b>
<b>Secondary School Certificate</b>	New English School, Shirala	92.60/100	<b>2019–2020</b>

## PROJECTS

### SanDrop | Online file sharing platform

[Link](#)

(ReactJs, Tailwind CSS, MongoDB, NodeJs, AWS EC2,S3, Docker)

- Built a responsive file-sharing platform and Implemented **chunked, resumable file uploads** with per-chunk progress tracking to enhance reliability and user experience during large transfers.
- Deployed application on AWS infrastructure: **hosted frontend/backend/DB on EC2**, utilized S3 for scalable file storage, and **containerized services using Docker Compose** (3 containers).
- Developed secure file-sharing workflows featuring **unique 6-digit access codes** and tiered storage policies (10-min guest/7-day logged-in retention).
- Built real-time admin dashboard tracking metrics including active uploads/downloads, storage utilization etc.

### VQCompress | Image compression

[Link](#)

(Java, Docker)

- Developed **Vector Quantization (VQ) compression/decompression logic** in Java from scratch, implementing tile-based processing of 8x8 pixel blocks and codebook mapping.
- Made adaptive compression levels through configurable codebook sizes (32-256 entries).
- Constructed **lossy compression** by replacing image tiles with compact codebook indices, achieving up to **75% size reduction** in testing.
- Created efficient tile storage using 3D arrays and optimized codebook searching with nearest-neighbor calculations for minimal quality degradation.

## SKILLS

**Languages:** Java, JavaScript

**Web Technologies:** HTML, CSS, Tailwind CSS, React JS, Node JS

**Database:** MongoDB, MySQL

**Course Work:** OS, DBMS, CN, OOPS, DSA

**Other:** Docker, Basics AWS (EC2, S3), Linux

## POSITIONS OF RESPONSIBILITIES

### Walchand Linux Users' Group

Web Developer (2024–2025)

- Collaborated in a team of three to design and develop event websites for major college tech fests: **Linux Diary 5.0**, **Open Source Day 2K24**, and **Metamorphosis 2K25**.
- Successfully managed and optimized systems to handle 500+ real-time user registrations with minimal latency.

### Student Association of Information Technology (SAIT)

Club Service Director (2024–2025)

- Served as Event Lead for **CloudVerse 2K24**, organizing workshops with 220+ participants and managing the overall event flow.
- Conducted hands-on sessions introducing AWS core services, including **EC2, S3, IAM**, and **Lambda**.

## PROFILES

**LeetCode:** [Sandesh1730](#)

Solved 550+ Problems | Max: 1779+

**geeksforgeeks:** [sandesh1730](#)

Solved 100+ Problems

**GitHub:** [sandeshshinde30](#)

Personal and academic projects

## ACHIEVEMENTS

- 1st Prize** in the **Project Competition** at DY Patil Polytechnic, Kolhapur – **TECHNOVA 2K23**, an Ideathon-style competition.
- 2nd Prize** in **Web Development** at GP Kolhapur – **TECHNO ENHANCE 2K23**, for developing a website on a given topic.
- Finalist** in **WCE ACM Hackathon 2K24**.
- Event Lead** of **Cloudverse 2K24** organized Student Association of Information Technology.
- Finalist** in **WCPC by CodeChef**, a **competitive programming contest**.