Yash Shewalkar
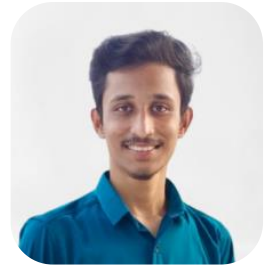
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Portfolio: shewalkar.tech **LinkedIn:** yash-shewalkar **GitHub:** yash-shewalkar

Coursework: Data Structures and Algorithms, Object Oriented Programming, Database Management Systems.

Projects

Portfolio Website: (Next.js, React.js, Typescript, NextAuth.js)　　　　　**Dec 2024 - Present**

- Developed and designed my own personal website with 4 main sections – about, projects, contact me and blogs.
- Implemented 5 main features: Interactive UI (ShadCN, Acerternity UI), animated project gallery, contact me form, responsive design.
- Added google sign-in to include few more features like ask me anything section and bookmarks in future.
- Successfully deployed on Vercel with some seamless updates and zero conflicts.

Image Gallery: (Node.js, Express.js, MongoDB)　　　　　**June 2024 - July 2024**

- Designed a Pinterest-like image gallery with 5 features: user authentication, account creation (Passport.js), post uploads with captions, user profiles, and a global feed.
- Integrated file handling & session management using 4-5 tools like Multer, Passport.js, Express-Sessions, and Cookie-Parser for secure user operations.
- Built a global feed page with a Masonry layout, displaying posts from multiple users in a grid.

ANPR Based Entry System: (Python, OCR, OpenCV)　　　　　**Apr 2024 - May 2024**

- Implemented a real-time number plate detection & entry system in Python, comprising 55% of the codebase.
- Optimized a YOLOv8 based OCR for real-time number plate recognition by implementing 50-frame buffer to store detection and extracting the text with highest occurrence.
- Extracts the most consistent number every 5 seconds for stable detection.
- Built an admin dashboard using Streamlit for monitoring entry logs & visualizing daily, weekly, and monthly approvals.
- Introduced a QR code scan feature with opens a form to send email access requests to flat owners, eliminating the need for any additional app downloads and saving user's significant time.

Skills

- **Programming**: C++, Python, Java
- **Web development**: Typescript, Next.Js, Tailwind, Node.js Express.Js, React.Js, RESTful API
- **Databases**: MongoDB, MySQL, PostgreSQL, Prisma ORM
- **Tools**: VS code, Google Colab, Postman, Git/Github

Education

Vishwakarma Institute of Technology, Pune　　　　　**Expected - 2026**
BTech: Artificial Intelligence and Data Science **(CGPA: 8.63)**

Ambrosia Jr College, Nashik　　　　　**2022**
Higher Secondary Education **(81%)**

Achievements

- **Research Paper: "Fake News Detector for Combatting Misinformation in Digital Age"**, published in International Conference on Machine Vision and Augmented Intelligence 2023