UJWAL KHAIRNAR

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EDUCATION

Dr. D Y Patil Institute of Engineering Management and Research — Pune
Bachelor of Engineering in Computer Engineering — *July 2021 - June 2025*

TECHNICAL SKILLS

Programming Languages : C++, SQL, Python(Beginner)

Frameworks & Libraries : React, Vite, Node.js, Express, MongoDB, MySQL, Flask, Material-UI

APIs & Integrations : RESTful APIs, JWT authentication

Tools & Platforms : Git, GitHub, Vercel, Render, Cloudinary, Postman, Power BI

EXPERIENCE

Web Development Intern — **January 2024 - February 2024**
Prodigy InfoTech — *Remote*

- Created multiple mini web development projects to build a strong foundation in frontend and backend technologies.
- Acquired core web development skills, including HTML, CSS, JavaScript, and basic backend integration through hands-on project experience.

PROJECTS

E-Commerce Platform — *React, Redux Toolkit, Material-UI, Node.js, MongoDB, JWT*

- Engineered a full-stack e-commerce application with role-based access control.
- Developed RESTful APIs with Cloudinary image uploads, validation, security middleware, and rate limiting, reducing API latency by 30%.
- Designed responsive React frontend featuring pagination, search, filters, and cart CRUD.
- Automated CI/CD: Vercel (frontend) and Render (backend) with environment-driven configs.

Online Retail Analytics Dashboard — *React, Flask, MySQL, pandas, Material-UI,*

- Implemented ETL pipeline reading UCI Online Retail II Excel, cleaning data, computing TotalAmount, and populating MySQL.
- Developed Flask REST API with real-time WebSocket updates; secured with CORS and environment variables.
- Created interactive React dashboard with Material-UI charts and filters, boosting user data comprehension and decision-making speed by 40%.

Weather Forecast Dashboard — *React, Vite, WeatherAPI.com, PWA, Lucide-React*

- Built React PWA, integrating WeatherAPI.com with real-time forecasts, geolocation, keyboard navigation, and debounce-enabled city search.
- Implemented offline support and CSV export for 5-day and hourly forecasts, enhancing usability and accessibility for diverse users.
- Optimized developer workflow with Vite, reducing build time by 50% and enhancing productivity.

Color Palette Generator — *React, Vite, Colormind API, CSS Grid*

- Designed AI-driven palette generator with lock/unlock features and copy-to-clipboard.
- Added keyboard shortcuts and accessible notifications, improving user interaction and efficiency by 30%.
- Deployed to Vercel with streamlined continuous integration, ensuring stable and instant updates.

EXTRA CURICULARS ACTIVITIES

- Solved 200+ algorithmic and database challenges on LeetCode and CodeChef, demonstrating strong optimization skills.
- Organized and conducted the Smart India Hackathon at the institute level

CERTIFICATES

- Front End Web Development Ultimate Guide (Udemy)
- Beginning C++ Programming - From Beginner to Beyond (Udemy)