

PALASH HEMADE

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Education

Pimpri Chinchwad College of Engineering

Bachelor of Technology in Computer Engineering

Aug. 2023 – June 2027

Pune, Maharashtra

Professional Summary

Computer Engineering undergraduate with hands-on experience in building and deploying production-grade full-stack applications. Strong foundation in data structures, algorithms, and software engineering fundamentals, with practical exposure to applied AI and LLM-based systems through real-world projects.

Experience

Web Development Intern — Green Hydrogen Dashboard

June 2025 – July 2025

Ernst & Young (EY)

- Developed a production-grade dashboard to visualize **green hydrogen project metrics**, using **Next.js**, **Tailwind CSS**, and **Recharts**.
- Translated domain research on India's green hydrogen initiatives into **structured data models and visualization logic** for stakeholder consumption.
- Designed reusable, responsive UI components with interactive tooltips and layouts, improving clarity and usability across device sizes.
- Optimized client-side rendering and state handling to enhance dashboard responsiveness and reliability.
- Iterated on mentor feedback to refactor components, fix defects, and deploy the application on **Vercel**.

Projects

AI Career Path Finder | Google AI Studio, Gemini LLM, O*NET Dataset, Python

November 2025

- Built an AI-driven career recommendation system that analyzes resumes and maps candidate skills to **1,000+ occupations** using the O*NET knowledge base.
- Designed a **hybrid role-matching pipeline** combining keyword-based scoring with LLM-assisted semantic ranking to improve relevance of recommended roles.
- Integrated Gemini LLM to generate **personalized, multi-phase learning roadmaps**, identifying skill gaps, recommended projects, and realistic timelines for career transitions.
- Implemented a **schema-validated JSON output layer** to constrain LLM responses, reduce hallucinations, and enable deterministic visualization of career paths in the frontend.
- Structured the system for extensibility, allowing future integration of evaluation metrics such as top-k accuracy and user feedback loops.

NutriLife – Health & Nutrition Tracking Platform | Next.js, React, TypeScript, MongoDB

March 2025

- Developed a full-stack health and nutrition tracking web application enabling users to log meals, workouts, and wellness metrics through a secure, authenticated system.
- Implemented **JWT-based authentication and session management** using NextAuth, bcryptjs, and MongoDB to ensure secure user access and data isolation.
- Designed and built **RESTful API endpoints** for user profiles and activity logging with server-side validation and date-range filtering.
- Developed an interactive dashboard to visualize daily health metrics including calories, water intake, activity, and weight using **Recharts** and real-time progress indicators.
- Engineered a responsive, dark-themed UI using **Tailwind CSS** and reusable component abstractions, ensuring consistency, maintainability, and cross-device compatibility.

Technical Skills

Languages: Python, C++ (primary) — JavaScript, TypeScript

Computer Science Fundamentals: Data Structures & Algorithms, OOPs, Computer Networks, DBMS

Web & Backend Technologies: React, Next.js, Node.js, REST APIs, Server-side Validation

Databases: MongoDB, SQL (fundamentals), Data Modeling

Tools & Platforms: Linux, Git, GitHub, VS Code