

# PALASH HEMADE

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## Education

**Pimpri Chinchwad College of Engineering**

**Aug. 2023 – June 2027**

*Bachelor of Technology in Computer Engineering*

*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