PRATEEK SAXENA

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GitHub: https://github.com/heyy-Prateek | **Portfolio Website:** https://heyy-prateek.vercel.app/

Summary

Result-driven BITS Pilani student specializing in building AI-powered digital products. Currently leading the product lifecycle and the development of a national-scale AI analytics platform, from identifying stakeholder needs to overseeing its technical development and user validation. Skilled in leveraging advanced AI (RAG) and data engineering to transform complex corporate and climate datasets into intuitive, high-impact solutions.

Academic Details

M.Sc. Chemistry + BE Chemical Dual Degree   **Expected in 05/2026**
BITS Pilani   Pilani

Skills

Technical Skills: Python, C++, Machine Learning, NumPy, Pandas, Scikit-Learn, Vector Databases, SQL, AI-RAG, GenAI, Firebase

Product-Management Skills: Excel, Lifecycle Management, Stakeholder Interaction, User Research, Product Roadmapping, API Fundamentals

Projects

AI-Enabled Dashboard for Climate & Sustainability Analytics
- Leading the end-to-end development of a large-scale, in-production AI platform for **CSIR**; engineering a novel **AI-powered RAG agent** for natural language querying of climate and **SEBI's BRSR** data for top 1200 companies.
- Currently developing an interactive AI chat feature leveraging Vector Databases, **LangChain** and multiple LLMs (Gemini, ChatGPT) to enable dynamic graph generation and predictive data analysis on the platform as required by the user through prompts.
- Driving the platform's innovation, leading to its selection for an **Automobile OEM industry pilot** and academic recognition with an abstract now accepted for publication by **SAE International Journals** and presentation at the **SAE WCX 2026 conference**.

CSIR Energy Optimization Dashboard | [Live Demo]
- Developing a full-stack national data analytics dashboard for **35+ CSIR institutes** featuring 1v1 comparisons, performance rankings, and detailed lab-specific analysis pages.
- Securing the platform with **Google Firebase** for user authentication and session management.

Monetized E-Learning Quiz Platform | [Live Demo]
- Building a full-stack quiz app using **React.js** with **RazorPay API** integration to manage a multi-tiered (Free, Basic, Pro) user subscription model.
- Engineering a tiered access system with daily attempt limits that automatically reset at midnight IST, using **Firebase** for authentication and data management.

Work Experience

Research Analytics & AI/ML Intern   **07/2025 to Current**
CSIR-Indian Institute of Petroleum
Climate change and Data Science Department (CCDS)   **Dehradun**
- Leading the end-to-end development of an AI sustainability platform for IIP's Climate change and Data Science Department (CCDS), including product design and stakeholder User Experience (UX) validation.
- Architecting the data pipeline to integrate national climate data with SEBI's BRSR disclosures into a unified backend database.
- Developing a novel AI-powered RAG agent that enables natural language querying and dynamic data visualization for non-technical users.

Operation & Strategy Intern   **05/2023 to 08/2023**
Steel Authority of India Limited   **Rourkela**
- Optimized NH_3 recycling, reducing waste & boosting efficiency by 10%.
- Improved machinery operations through team coordination.

Certifications

- Google Advanced Data Analytics Expert Certification
- Postman API Fundamentals Student Expert

Positions of Responsibility

Student Faculty Council, Chemical Engineering – BITS Pilani
Aug 2024 – Present
- Represented student voice in academic discussions; advocated for curriculum upgrades and practical exposure.

Core Team Manager, NSS Oasis Fest – BITS Pilani
Aug 2022 – Oct 2022
- Led 50+ volunteers; managed logistics and fundraising, generating ₹2L+ in 3 days during the flagship college fest.