

Prisha Thapar

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Technical Skills

Languages: JavaScript (ES6+), C++, Python
Frontend: React (hooks, components), HTML5, CSS3, Responsive Design,
Tailwind Tooling & Testing: Git, GitHub, Vercel/Netlify, Chrome DevTools, React Testing Library (basic)
Data & Analysis: Pandas, NumPy, CSV data handling, Map visualizations (Folium)

Projects

- **NeerTrace – Heavy Metal Pollution Indices Calculator** | [Github](#) | [Demo Video](#) | *Technologies: Python, Streamlit, Pandas, NumPy, Folium*
Built a real-time water quality monitoring tool to compute heavy metal pollution indices .Added features for CSV batch upload, manual entry, interactive maps, and downloadable reports, helping researchers and policymakers identify contamination hotspots. Ensured reproducibility with repository screenshots and demo.
- **MaatriCare AI – GenAI-Powered Maternal Health Copilot** | [GitHub](#)
Technologies: React.js, Node.js, Express, MongoDB, Google Gemini API
Built a full-stack **data-backed application** to support ASHA workers in maternal risk assessment using patient vitals and clinical parameters. Implemented **rule-based risk analysis logic** to classify pregnancy risk levels and surface explainable outcomes. Designed real-time high-risk alerts with escalation and personalized nutrition guidance. Designed an ASHA-friendly, low-literacy UI with simple flows, clear labels, and minimal cognitive load for field use.
- **Bugbear's Bookshelf – Blog Website (HTML, CSS)** (Link: [Bugbear's Bookshelf](#))
Built a responsive blog website for book reviews and coding thoughts with a dark academia theme.
Designed an intuitive, desktop-friendly UI with semantic HTML and optimized CSS for faster load times.

Experience and Leadership

- **Core Member (Social Media and Marketing Team)** | **Startup Club, VIT Bhopal** (Aug 2024-May 2025)
Analyzed audience engagement patterns to guide **data-informed content strategy**, increasing reach by 30%.
Coordinated multi-team campaigns and measured outcomes based on attendance and engagement metrics.
Collaborated with cross-functional teams to execute events impacting 400+ participants.
- **Head Girl- Student Council** | **Billabong High International School** (2022-2023)
Led a 20+ member council, driving planning, execution, and evaluation of 10+ large-scale initiatives.
Demonstrated **structured problem-solving, stakeholder coordination, and accountability**.

Education

- B.tech. in Computer Science Engineering | Vellore Institute of Technology, Bhopal **CGPA: 8.96 / (2027)**
- XII (ISC) | Billabong High International School, Vadodara **93.8% / (2023)**
- X (ICSE) | Billabong High International School, Vadodara **95.6% / (2021)**

Achievements and Certifications

- **Selected in Top 75 teams** for building **MaatriCare AI**, a GenAI-powered maternal health copilot enabling explainable risk detection, personalized care plans, and real-time high-risk alerts for ASHA workers.
- **Microsoft Certified: Azure Data Fundamentals (DP-900)** — Score: 985/1000 (Issued June 24, 2025) [verified credential](#)