

## Prerna Kumari

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### EDUCATION:

#### Computer Science Engineering specialization in E-Commerce and Technology

VIT Bhopal University Bhopal, Madhya Pradesh (2022-2026)

Cumulative CGPA: 8.12 /10

12<sup>th</sup> Standard-DAV Public School Ranchi, Jharkhand (2022)

CBSE Percentage: 89%

10<sup>th</sup> Standard-DAV Public School Ranchi Jharkhand (2020)

CBSE Percentage: 91%

### PROJECTS:

#### Ecommerce website – Comparelo

(Oct23-Nov23)

- Designed a price comparison website as a platform facilitating interaction between consumers and sellers, providing a solution for online customers. Implemented a Backend system employing scraping techniques to extract information from various E-Commerce websites (particularly 3 websites were chosen). Executed web scraping utilizing PHP libraries for parsing HTML pages, ensuring accurate and efficient data extraction.
- Led the coding and unit testing efforts, collaborating with a team of 5 members to successfully execute system integration testing.

#### Road Navigation Tracking and Alert System for Disaster, Construction, and Flooded Pits

(2024-25)

- The multi-modal navigation system is designed to revolutionize road navigation by integrating real-time hazard detection, predictive risk analysis, and dynamic route optimization. This system leverages advanced technologies such as geospatial data analysis, ML, and real-time traffic updates to ensure safer and more efficient travel.
- Leading the backend part, by creating a predictive model for the entire project.

#### HealNav

(Nov 24- Feb25)

- AI driven platform that provides support to the travelling doctors who provide healthcare services to multiple rural communities. Our website contains a symptom input tool where patients can input their current symptoms, the community section has patient record data including patient medical history, contact info, current condition & discussion groups where patients from the same village can interact & share experiences, the notification section ensures patients get reminders on time for medication, and our medical bot provides rapid responses to common health queries for users.
- Built the entire community section part, including all the patient record data, and the discussion groups.

#### Immersive Urban Narratives: Augmented Reality Data Visualization for Smart City Engagement

(Dec 24)

- This paper explores the transformative role of Augmented Reality (AR) in shaping smart city systems by combining four models of AR for: Real-Time navigation system for pedestrian safety, Smart retail and commerce, construction visualization and lastly for enhancing tourism.

### SKILLS SUMMARY:

**Technical Skill:** C++, Java (oops concept), Python, Javascript, C#, Unity, Blender, HTML, CSS.

**Tools:** Power BI, Tableau, Excel.

**Soft Skills:** Leadership, Research, Teamwork, Resilience, Communication, Relationship-Building.

### EXTRA-CURRICULAR:

#### Dance Club (Social Media & Design lead):

(Aug 24- ongoing)

- Managed 300+ event attendees, led the dance crew, produced high-impact promotional content that received over 50,000 views, and expanded Instagram reach.

#### E-Commerce Club (Social Media & event lead):

(Aug 24-ongoing)

- Boosted Instagram reach through posts and reels by 25%, managed & conducted online and offline webinars and events.

#### Sports (Captain)

(Feb 23)

- Won gold medals in cricket and volleyball in the inter branch sports fest.

### ACHIEVEMENTS:

- Qualified for round 2 (Detailed idea submission) in the EY Techathon 5.0.
- Our project was presented in 2 conferences.
- Qualified for round 2 (Detailed idea submission) in Health Hackathon organised by VIT Bhopal University & Johns Hopkins University.
- Qualified for round 2 (Detailed idea submission) in AI Innovation Hackathon.

### ADDITIONAL:

- Languages:** Hindi, English, basic Japanese and Italian.

