

# Piyush Yadav

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## Education

### Aryabhatta College, University of Delhi

*Bachelor of Science (Hons.) in Computer Science*

Delhi, India

2022 – Present

### Central Board of Secondary Education (CBSE)

*Class XII*

Delhi, India

May 2022

## Technical Skills

**Languages:** Python (Advanced), C++ (Basic) UI/UX, LaTeX

**Frameworks/Libraries:** YOLOv8, Pandas, NumPy, Matplotlib, Seaborn

**Developer Tools:** Git, GitHub, SEO, Overleaf, PyCharm, MongoDB, VS Code

**Design:** UI/UX Principles, Figma, Canva

## Research Experience

### Student Researcher

*Under Supervision of Mr. Hemant Kumar*

Current

*Aryabhatta College*

- Working on a **Smart Parking System** research project using Computer Vision.
- Implemented vehicle detection modules using the **YOLOv8** object detection framework.
- Authored a formal technical thesis including detailed chapters and monthly progress reports using **LaTeX on Overleaf**.
- Successfully defended and received supervisor signature for two completed thesis chapters and all monthly implementation reports.

## Projects

### Maps & Data Visualization Project | *Python, Matplotlib, Pandas, Vercel*

- Developed an interactive geospatial platform: [wipmaps.vercel.app](http://wipmaps.vercel.app).
- Built layered heatmaps and map visualizations for real-world datasets to derive actionable insights.

### HOSTIFY – PG Search & Booking System | *MongoDB, UI/UX, Python*

- Designed a full-stack platform for college students to search, compare, and book PG accommodations.
- Implemented real-time availability tracking and price comparison using a MongoDB backend.

### Python Data Initiatives | *Python, NumPy, GitHub*

- Created a structured library for learners covering data cleaning, preprocessing, and advanced functions.

## Achievements & Leadership

### Event Head

*Hackathon Management*

Techpioneer Society

*Aryabhatta College*

- Led a team to organize a successful Hackathon, generating over **83,000+ impressions** across platforms.
- Managed an overwhelming response of **250+ registrations** within a 3-day window.
- Coordinated team tasks, time management, and communication strategies for the event's success.

### Event Coordinator

*Diss-o-brand Event*

E-Cell Society

*Aryabhatta College*

- Coordinated a branding event with 50+ inter-college participants, focusing on creative advertisement and brand "dissing."
- Developed skills in working under extreme pressure and meeting tight time constraints.

## Qualities & Interests

**Soft Skills:** Time Management, Research Methodology, Teamwork, Technical Writing

**Interests:** Content Writing, Blogging, Playing Chess, AI/ML Research