

# Krati Madhwani

kratimadhwani2022@vithhopal.ac.in | +91 7800696377 | [LinkedIn](#) | [GitHub](#)

## Education

**VIT Bhopal University, Madhya Pradesh**  
B.Tech in Computer Science, Expected May 2026  
Cumulative GPA: 8.83 / 10

## Skills

**Programming languages:** Java, Python (Beginner)  
**Frontend :** HTML5, CSS3, JavaScript, TypeScript, Bootstrap, Embedded JS(EJS), PDFKit  
**Backend :** Node.js, Express.js, PHP, RESTful APIs  
**Database :** MongoDB, PostgreSQL, MySQL, SQL  
**Machine Learning:** Python, TensorFlow, OpenCV, CNNs  
**Languages:** Hindi, English (fluent), Sindhi

## Projects

**LinkWink** | [GitHub Repo](#)

Jun 2025

- Developed a centralized PDF generator using HTML5, CSS3 and JavaScript, enabling users to automate the compilation of professional details (resume, social links, and portfolios) into a single, shareable document for job applications.
- Implemented a responsive frontend with JavaScript, ensuring a seamless user experience across devices while maintaining modern UI/UX principles.
- Utilized PDFKit (JavaScript library) to dynamically generate structured and well-formatted PDFs, incorporating user-provided data with customizable templates for different job roles.
- Technologies:** HTML5, CSS3, JavaScript, PDFKit, Git, GitHub

**GradeUp** | [GitHub Repo](#)

Feb 2024 – Apr 2024

- Developed and deployed a scalable web platform using Python (Scikit-learn, Pandas) and PHP to generate personalized study plans based on user behavior, course deadlines, and performance history.
- Leveraged HTML5, CSS3, JavaScript, PHP, and MySQL to build a full-stack solution, ensuring robust performance and scalability.
- Trained and fine-tuned ML models, achieving a predictive accuracy of 0.89 to deliver tailored study recommendations.
- Engineered a responsive frontend UI, boosting user engagement by 25% through intuitive design and seamless navigation.
- Technologies:** Python (Scikit-learn, Pandas, Matplotlib), HTML5, CSS3, JavaScript, PHP, MySQL, Git

**Finance and Expense Tracker** | [GitHub Repo](#)

Oct 2024 – Apr 2025

- Led a 9-person Agile team to design and deploy a full-stack finance tracker with a microservices architecture, leveraging Node.js, Express.js, and MongoDB to handle 5,000+ concurrent users.
- Redesigned RESTful APIs to optimize database queries and caching, improving backend scalability by 30% (measured via AWS Load Testing).
- Designed, developed, and deployed a dynamic dashboard using React.js, implementing real-time expense visualizations (interactive charts, spending trends) and optimizing API calls to slash user data retrieval time by 40%.
- Technologies:** Node.js, Express.js, MongoDB, React.js, JavaScript (ES6+), HTML5, CSS3, Git

**Turning Trash Into Treasure**

Aug 2023 – Nov 2023

- Spearheaded a machine learning system using CNNs and OpenCV, achieving 0.78 accuracy in real-time garbage detection and 0.96 precision in automated waste segregation.
- Trained a custom CNN model (TensorFlow/Keras) on a dataset of 10,000+ waste images, optimizing hyperparameters to reduce false positives and improve inference speed.
- Developed a mobile-first responsive web interface using HTML5, CSS3, and JavaScript, ensuring seamless cross-device compatibility and intuitive user interactions for waste monitoring and reporting.
- Technologies:** HTML5, CSS3, JavaScript, Python, OpenCV, CNNs

## Internships

**The Cyber Delta**

Nov 2022 – Feb 2023

Technical Writing and Public Outreach Intern – Authored and optimized 15+ cybersecurity awareness articles on topics like phishing prevention and secure browsing and increased monthly engagements across organizational platforms.

## Activities

**IoT Club, VIT Bhopal**

July 2023 – Feb 2024

Event Management Team – Planned and executed 2 major technical events, coordinating speaker sessions and live Q&A panels that increased attendee satisfaction by 40% and facilitated 150+ professional connections.