UTKARSHA AHERRAO

Phone: +91 9511903029 | Email: utkarsha.aherrao@gmail.com | [LinkedIn](#) | [GitHub](#)

Education

- **VIT Bhopal University,** Bhopal, Madhya Pradesh
  Bachelor of Technology in Computer Science and Engineering
  Cumulative GPA: 8.91/10.0
  Jul 2022- May 2026 (Expected), currently 4th year undergrad student
- HSC (86.83%), SSC (92.80%), Mumbai, Maharashtra

Projects

- **Food Delivery Website (MERN stack with MongoDB), Feb 2025 - Apr 2025**
  - Built and deployed an interactive full-stack food delivery website using HTML, CSS, JavaScript, React, and AngularJS, achieving 100% responsiveness across 5+ device types and screen sizes, improving accessibility and usability for a diverse user base.
- **AI Chatbot for BRTS Navigation (Python, NLP, Machine Learning), Sept 2024 – Dec 2024**
  - Developed a bilingual AI-powered chatbot in React and Python that served over 5,000+ weekly Bhopal BRTS commuters, enhancing transit accessibility and reducing route navigation time by 40% through real-time bus schedules and directions in English and Hindi.
- **Gesture Alchemy (Python, Machine Learning), Feb 2024 – Apr 2024**
  - Created ML-powered gesture recognition system in Python, improving fingerspelling interpretation accuracy by 92%, demonstrating strong cross-domain application of AI and UI logic.
- **Hypothesis Testing and Prediction on Student Performance backed by Socio-economic survey (Python, Machine Learning), Aug 2023 – Oct 2023**
  - Engineered a predictive model on student academic performance using socio-economic survey data, achieving 85% accuracy and enabling data-driven interventions via intuitive dashboards and visualizations.
- **Drum Kit – Web and Simon Game (HTML, CSS, JavaScript), Jun 2023**
  - Created an interactive web-based drum kit for virtual drumming experiences and developed a digital implementation of the iconic Simon Game, a memory and pattern-matching challenge.

Work Experience

- **Junior ML Engineer, Omdena**, Oct 2024 – Dec 2024
  - Developed an AI-driven multilingual chatbot using frontend technologies to enhance navigation for 5,000+ Bhopal BRTS commuters weekly, improving user accessibility and engagement
  - Collaborated remotely with an international team on open-source water management and forecasting projects, contributing to frontend integration and data visualization across multi-country datasets

Extra-Curricular Activities

- **SMM Lead and Contributor, Omdena VIT Bhopal Chapter**, Aug 2024 - Present
  - Led social media strategy and engagement to amplify the outreach and impact of Omdena VIT Bhopal Chapter initiatives and contributed to projects.
- **Core Team Member, Artificial Intelligence Club – VIT,** Nov 2022 - May 2025
  - Actively engaged as an AI Club member, exploring and advancing AI applications while promoting innovation and teamwork.
- **Community Member, Google Developers Group,** Jun 2023 - Jan 2024
  - Diligently participated in GDG events, workshops, and hackathons and collaborated with fellow developers to share knowledge and insights, promoting learning and networking.

Certifications

- **Fullstack Web Development MERN with MongoDB -** Certified in Full-Stack Web Development (MERN) with hands-on experience in building end-to-end applications using MongoDB, Express.js, React, and Node.js**.**
- **DevOps Fundamentals, IBM -** A course covering CI/CD, containerization, and cloud deployment basics.
- **Cloud Computing, NPTEL -** A course covering diverse topics of cloud computing. (Elite Certificate)
- **Machine Learning, Kaggle -** A course covering the basics of Machine Learning.
- **Computer Networking by Google, Coursera -** A comprehensive course for computer networking.
- **Cybersecurity Fundamentals, IBM -** Essentials for digital assets and defending against cyber threats.
- **Marketing Analytics, NPTEL -** Essentials for digital assets and defending against cyber threats.

Technical Skills

- **Proficient** in Python, Java, C, HTML, CSS, JavaScript, MATLAB, Excel, Git & Version Control.
- **Experienced** in Web Development, Object-Oriented Programming, Data Structures, Algorithms, and Machine Learning techniques, APIs.