

## Utkarsha Aherrao

Phone: +91 9511903029 | Email: utkarsha.aherrao@gmail.com | [linkedin.com/in/utkarsha-a](https://www.linkedin.com/in/utkarsha-a)

### Education

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- **VIT Bhopal University**, Bhopal, Madhya Pradesh  
Bachelor of Technology in Computer Science and Engineering  
Cumulative GPA: 8.80/10.0  
Jul 2022- May 2026 (Expected), currently 3<sup>rd</sup> year undergrad student
- HSC (86.83%), SSC (92.80%), Mumbai, Maharashtra

### Projects

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- **Food Ordering App (HTML, CSS, React.js, Node.js, Express.js, MongoDB), Jan 2025 - April 2025**
  - Designed and developed a full-stack food ordering web application using HTML, CSS, React.js, Node.js, Express.js, and MongoDB, enabling users to browse menus, place orders, and track deliveries in real-time.
  - Implemented a responsive and intuitive user interface for seamless browsing and ordering, while integrating backend APIs and a MongoDB database to handle over 1,500+ weekly transactions, improving restaurant accessibility and user satisfaction.
- **AI Chatbot for BRTS Navigation, Sept 2024 – Dec 2024**
  - Designed and implemented an AI-driven chatbot that streamlined navigation of the Bhopal BRTS system, enhancing user experience by providing instant answers about bus schedules, stops, and routes to over 5,000+ commuters weekly.
  - Implemented a responsive chatbot for Bhopal's BRTS system, delivering real-time information on bus schedules and routes to 1,000+ commuters weekly, enhancing navigation efficiency across the transit network.
- **Gesture Alchemy (Python, Machine Learning), Feb 2024 – Apr 2024**
  - Developed a Python-based ML model for precise interpretation of fingerspelling gestures, facilitating fluent word formation.
  - Applied advanced statistical techniques and diverse ML algorithms for enhanced precision.
- **Hypothesis Testing and Prediction on Student Performance backed by Socio-economic survey (Python, Machine Learning), Aug 2023 – Oct 2023**
  - Engineered a predictive model using machine learning algorithms to forecast student performance based on socio-economic attributes.
  - Employed advanced statistical techniques, hypothesis testing, and data visualization tools for robust analysis.

### Work Experience

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- **Junior ML Engineer, Omdena**, Oct 2024 – Dec, 2024
  - Completed in 6 weeks, the project successfully developed an AI-driven chatbot to assist Bhopal commuters in navigating the BRTS, offering route suggestions and step-by-step directions in both English and Hindi.
  - Collaborated on an international initiative for open-source water management and forecasting in Bhopal and Algeria

### Extra-Curricular Activities

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- **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 contributing to projects.
- **Contributor, Girl Script Summer of Code (GSSOC)**, June 2024 - Present
  - Contributing in various open source projects related to UI development.
- **Core Team Member, Artificial Intelligence Club – VIT**, Nov 2022 - Present
  - Actively engaged as an AI Club member, exploring and advancing AI applications while promoting innovation and teamwork.
- **Community Member, Google Developers Group**, Jun 2023 - Present
  - Diligently participated in GDG events, workshops, and hackathons and collaborated with fellow developers to share knowledge and insights, promoting learning and networking.

### Certifications

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- **Python, Hackerrank** - A course covering diverse topics and hands-on coding exercises
- **Machine Learning, Kaggle** - A course covering basics of Machine Learning.
- **Computer Networking by Google, Coursera** - A comprehensive course for computer networking.
- **Cybersecurity Fundamentals, IBM** - Essentials for digital assets and defend against cyber threats.
- **MATLAB Onramp** - A concise gateway to mastering MATLAB's essentials.

### Technical Skills

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- **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.