Utkarsha Aherrao

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EDUCATION

VIT Bhopal University, Bhopal, Madhya Pradesh   CGPA: 8.91
Bachelor of Technology in Computer Science   *Sept 2022 – May 2026*

TECHNICAL SKILLS

Languages: Python, HTML/CSS, JavaScript, MySQL, NoSQL, MongoDB
Frameworks: React, Node.js, Express.js, Flask, APIs
Additional: Machine Learning, NLP, Data Science, Web Services, Git, CLI, Data Structures

EXPERIENCE

Junior ML Engineer   Oct 2024 – Dec 2024
Omdena   *Remote*
- Developed AI-driven chatbot for public transit ML project, serving commuters and improving user accessibility across multiple languages
- Collaborated remotely with 15+ international team members on open-source water management and forecasting projects, contributing to data visualization and frontend integration
- Implemented frontend solutions and data visualization components for water management systems, translating complex multi-country environmental data into accessible user interfaces and interactive dashboards

PROJECTS

AI Chatbot for BRTS Navigation | *Python, NLP, Beautiful Soup, RAG, API*   Feb 2025 – Apr 2025
- Built a multilingual AI chatbot with natural language processing capabilities to provide real-time navigation for Bhopal's Bus Rapid Transit System, serving 2,000+ weekly commuters
- Implemented data scraping pipeline using Python libraries (Beautiful Soup, Selenium, Pandas) to extract and data from websites, PDFs, and CSV files
- Created accessible Telegram interface supporting 2 languages including Hindi to deliver step-by-step navigation, real-time bus schedules, and traffic updates for enhanced user experience

Gesture Alchemy | *Python, Machine Learning, Computer Vision*   Feb 2024 – May 2024
- Designed machine learning-powered American Sign Language (ASL) fingerspelling recognition system using Python and computer vision techniques, achieving 92% interpretation accuracy
- Integrated real-time gesture detection and classification algorithms using OpenCV and MediaPipe for 21-point hand landmark detection and tracking
- Constructed intuitive user interface with live video processing capabilities, enabling seamless ASL-to-text translation for improved accessibility and communication

Food Delivery Website | *React.js, Express.js, Node.js, MongoDB*   Mar 2025 – May 2025
- Launched full-stack food delivery website using HTML, CSS, React and AngularJS, achieving 100% responsiveness across 5+ device types for diverse user accessibility
- Established complete user authentication, order management, and payment integration system using MongoDB, Express.js, and Node.js backend architecture
- Delivered real-time order tracking, menu management, and secure payment processing features for seamless user experience

CO-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, increasing follower engagement by 40%

Core Team Member, Artificial Intelligence Club – VIT   Nov 2022 – May 2025
- Organized events for 500+ students, collaborating with 50 Team members on Machine Learning by AI Club.

Community Member, Google Developers Group,   Jun 2023 – Jan 2024
- Participated in 8+ GDG events, workshops, and hackathons and collaborated with fellow developers to share knowledge and insights, promoting learning and networking