**Utkarsha Aherrao**

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**Education**

* **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 3rd year undergrad student

* HSC (86.83%), SSC (92.80%), Mumbai, Maharashtra

**Projects**

* **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.
* **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
  + Completed in 6 weeks, the project successfully developed an Al-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**

* **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**

* **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**

* **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.