ASHUTOSH SINGH RAWAT

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EDUCATION

VIT Bhopal University (August, 2022 – Present)
B. Tech CSE(Core) | CGPA: 8.78

Rainbow Public School (May, 2020 – June 2021)
Higher Secondary | Percentage: 96.50%

Rainbow Public School (May, 2018 – June 2019)
Secondary | Percentage: 96.40%

SKILLS

- **Core Skills:** Python, Java, Machine Learning, Deep Learning, Computer Vision.
- **Technologies:** Scikit-learn, Pandas, NumPy, AWS, HTML, CSS.

PROJECTS

Gesture Alchemy (Feb, 2025 – March 2025)

- Developed a desktop application in Python that translates spoken words into visual sign language to improve communication accessibility for the hearing-impaired.
- Integrated Google's Speech Recognition API to convert live audio from a microphone into text, and created a logic system to map recognized phrases to corresponding sign language GIFs.
- Built the graphical user interface (GUI) using Tkinter and utilized multithreading to run the listening process in the background, maintaining a responsive and non-blocking user experience.

Health++ - Smart Medical Website (Oct, 2024 – April 2025)

- Engineered a prescription-sharing feature, allowing doctors to access patients' treatment history, improving diagnosis accuracy by and care continuity for patients with chronic conditions within the first quarter.
- Integrated Google Drive API with a Node.js backend to provide secure and real-time medical document storage and retrieval, enhancing collaboration between patients and healthcare professionals while maintaining data integrity.
- Improved user experience and data accessibility by designing responsive frontend components and streamlining medical record handling workflows, reducing manual effort and making the system more efficient for both doctors and patients.

EXPERIENCE

Internship : Remote

Huwats India Pvt. Ltd., Bengaluru (Nov, 2024 – Feb 2025)

- Role - AI/ML Intern
- Built an AI/ML solution using Python and OpenCV (cv2) for detecting and highlighting image boundaries upon user interaction.
- Designed an interactive system, where clicking on specific regions (e.g., bus seats) identifies and outlines boundaries, and dynamically displays object dimensions.
- Applied image processing techniques like contour detection and region segmentation to enable real-time object selection and analysis.

EXTRA-CURRICULARS

- **Co-founder, Pahadi Club – VIT Bhopal** Led initiatives to promote Pahadi culture through various events, increasing student participation and cultural awareness.
- **National Service Scheme - VIT Bhopal University –** Participated in the plantation camp where the team successfully planted 10,000 trees, contributing to environmental sustainability and community awareness.

ADDITIONAL INFORMATION

- **Hobbies:** Reading Novels, Gaming, Listening Music.
- **Languages:** English, Hindi.