Kumar Snehanshu

+918800020736 | linkedin-kumar snehanshu | github- snehanshu-github

Education

Vellore Institute of Technology, Bhopal   Bhopal, Madhya Pradesh
Bachelor of Science in Computer Science   *Oct 2022 – July 2026*

Projects

Sign Language Detection | *Python, OpenCV, Streamlit*   May 2024 – July 2024

- Built a computer vision system to recognize hand gestures corresponding to basic sign language alphabets.
- Utilized OpenCV and MediaPipe to detect and track hand landmarks in real-time.
- Trained a machine learning model (e.g., SVM/Random Forest) for gesture classification based on extracted features.
- Designed a user-friendly interface to display detected signs as text output, aiding communication for the hearing impaired.

Speech Detection System | *Python, PocketSphinx, CMU*   February 2024 – April 2024
- Developed a real-time speech recognition system using CMU PocketSphinx, enabling offline voice input processing.
- Implemented keyword spotting to trigger specific actions based on recognized phrases.
- Optimized the acoustic model and pronunciation dictionary for improved accuracy in noisy environments.
- Integrated the system with Python scripts to demonstrate command-based control of applications.

Website for NGO | *HTML, CSS, Javascript, React*   August 2023 – October 2023
- Designed and developed a responsive website for an NGO to showcase their mission, events, and donation drives.
- Integrated forms for volunteer registration, event participation, and contact inquiries using HTML, CSS, and JavaScript.
- Ensured cross-browser compatibility and optimized the site for SEO and faster loading.
- Deployed the website using GitHub Pages (or another hosting platform) and provided documentation for maintenance.

Technical Skills

Languages: Python, Java, C/C++, Excel, SQL, JavaScript, HTML/CSS **Frameworks**: React.js, Spring boot, TensorFlow

Certifications

IBM-Devops fundamentals

IBM-Blockchain developer

Udemy ML (A-Z)

Cloud Computing - NPTEL