Harsh Namdev

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Education

- **Rajasthan Technical University** — Kota, Rajasthan
  Bachelor of Technology in Computer Science; GPA: 7.85 — *Oct. 2021 – April 2025*
- **M B I Sr. Sec. School** — Kota, Rajasthan
  RBSE-Higher Secondary Education (XII); PERCENTAGE: 70.20% — *June 2020*
- **M.B. INT School** — Kota, Rajasthan
  CBSE-Secondary Education (X); PERCENTAGE: 77% — *June 2018*

Experiences And Projects

- **Front End Development**

  May 2023 - July 2023

  - **Web Development Skills**: Developed responsive web applications using HTML, CSS, JavaScript, and ReactJS.
  - **Project Development**: Built and contributed to projects like Amazon Clone and Password Generator App.
  - **Hands-on Experience**: Ensured cross-browser compatibility and optimized UI/UX.

- **Advanced Attendance System using Face Recognition**

  May 2024 - Present

  - **Project Overview**: Built a real-time attendance management system using facial recognition and Flask as the backend framework.
  - **Frontend Development**: Designed responsive and user-friendly interfaces using HTML, CSS, and Bootstrap.
  - **Face Detection and Recognition**: Implemented face detection and matching using Python's `face_recognition` library.
  - **Backend Integration**: Used Flask to handle API routes, face processing logic, and attendance workflows.
  - **Database and Authentication**: Stored user details and attendance logs in MongoDB with login-based access control for professors.
  - **Features Implemented**: Included manual/image-based attendance marking, student registration, class-wise tracking, and print support.

- **Gesture Volume Control Using Machine Learning**

  May 2024 - Present

  - **Project Overview**: Developed a machine learning-based gesture volume control system using Python, OpenCV, and Mediapipe.
  - **Hand Tracking and Gesture Recognition**: Utilized Mediapipe for real-time hand tracking and recognition of gestures.
  - **Audio Control Implementation**: Mapped detected gestures to volume levels, enabling seamless hands-free control.
  - **Performance Optimization**: Enhanced gesture detection accuracy and system responsiveness to ensure real-time performance.
  - **Real-time Implementation**: Integrated with media applications to adjust volume dynamically based on hand gestures.

Programming Skills

- **Languages**: C , C++ , python.
- **Web Development**: HTML, CSS, JavaScript, ReactJS, Next.js.
- **Databases**: MongoDB, SQL.
- **Machine Learning Frameworks**: TensorFlow, PyTorch, OpenCV, Mediapipe.
- **Development Tools**: VS Code, PyCharm, GitHub, Postman.
- **Core Subjects**: DSA,OS, OOPs,DBMS.