

Peeuesh Chauhan

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Education

National Institute of Technology, Hamirpur

B.Tech in Civil Engineering | Graduation: 2028 | CGPA: 8.55
Hamirpur, Himachal Pradesh

Experience

Robotics Society, NIT Hamirpur - Volunteer

Jan 2025 - Present

- Assisted with society operations and event coordination during Roboweeek.
- Learned basic robotics concepts and contributed to the Smart Glasses project for Nimbus 2025.

Projects

Smart Glasses for the Visually Impaired

Robotics Society, NIT Hamirpur

Technologies: Python, OpenCV, PyTorch, Raspberry Pi, YOLOv5, BLIP

<https://github.com/TwinedM/smart-glasses>

- Built wearable AI-powered smart glasses for real-time object detection, OCR, and navigation.
- Trained image recognition models (YOLOv5, BLIP) and integrated with Raspberry Pi and Pi-Cam.
- Added audio feedback, facial recognition, and OLED-based visual output.

911 Emergency Call Analysis & ML Exploration

Self-Initiated Project

Technologies: Python, Pandas, Matplotlib, Seaborn, Plotly, Scikit-learn

<https://github.com/TwinedM/911-call-capstone>

- Analyzed 911 call data to identify patterns and spatial trends using EDA techniques.
- Created interactive visualizations (e.g., choropleth maps) with Plotly and Cufflinks.
- Currently extending into ML for predictive classification of emergency types.

Technical Skills

- Languages: Python, Papyrus
- Libraries/Frameworks: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Plotly, Cufflinks, OpenCV, PyTorch
- Tools: Git, Jupyter Notebook, VS Code, Raspberry Pi, Linux (Ubuntu)