

# Vaishnavi

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## SKILLS

- **Languages:** C++, Basic Java, Python
- **Framework:** HTML and CSS, Bootstrap, Numpy, Pandas, Matplotlib, Scikit-learn
- **Tools/Platforms:** MySQL, MongoDB
- **Soft Skills:** Solution Oriented, Collaborative, Adaptable, client first Approach

## PROJECTS

### Real-Time Video Surveillance System for Threat Detection: July 2025

- Established a real-time video surveillance system for threat detection using Support Vector Machine(SVM)
- Implemented frame extraction, preprocessing, and feature engineering techniques to prepare video data for Machine Learning analysis
- Utilized OpenCV for real-time video capture, frame processing, and visualization of detection results
- Achieved **89.8% accuracy** in classifying real-time video frames
- **Tech:** OpenCV, SVM, Matplotlib, NumPy, Pandas, Scikit-learn

### AI Surveillance for Smoke Detection : Nov 2024

- Developed an AI-based surveillance system capable of detecting smoke and fire in real-time
- Implemented computer vision and machine learning techniques to identify smoke patterns with high precision
- Built a scalable system applicable for public safety, industrial monitoring and smart surveillance environments
- **Tech:** Python, OpenCV, Scikit-learn, SVM, NumPy, Pandas, Matplotlib

## INTERNSHIP

### Summer Training Program July 2025

— AI & ML for Real-world Problem Solving - LPU

- Completed a Summer Internship Program focused on **Machine Learning workflow** including data collection, preprocessing, feature engineering, model training and evaluation
- Learned to use AI tools and libraries like **Python, NumPy, Pandas, Matplotlib** and **Scikit-learn**
- Designed and formulated a **real-time video surveillance system for threat detection** using Support Vector Machine (SVM) for activity classification
- **Tech used:** OpenCV, Scikit-learn, SVM, Matplotlib

## CERTIFICATES

- Build Generative AI Apps and Solutions with No-Code Tools | Infosys Aug 2025
- Master Generative AI & Generative AI Tools | Infosys Aug 2025
- AI & ML for Real-world Problem Solving | LPU Jun 2025

## ACHIEVEMENTS

- Ranked in the **top 10 teams** in Cyber Security Hack-quest Mar 2024
- Secured 2<sup>nd</sup> position in the Interhostel Drawing Competition for creative illustration skills Jan 2024

## EDUCATION

### Lovely Professional University | Punjab, India

- *Bachelor of Technology - Computer Science and Engineering: CGPA: 7.98* Since Aug 2023

### BTC Govt. Girls Model Sr. Sec. School | Nurpur, H.P.

- *Intermediate - Percentage: 92* Apr 2022 - Mar 2023

### Noorpur Public School | Nurpur, H.P.

- *Matriculation - Percentage: 87.6* Apr 2020 - Mar 2021