Samaksh Sethiya

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Technical Skills: Python (Numpy, Pandas, Pytorch, OpenCV), HTML, CSS, JavaScript, MATLAB, MySQL, C, C++, Data Structure and Algorithms.
Certification: Matlab Onramp, Python Essentials, The Bits and Bytes of Computer Networking, NPTEL Cloud Computing.

EDUCATION

Board	Tenure	Educational Institution	CGPA/Percentage
B. Tech (CSE)	June 2022 – Ongoing	VIT University	9.07/10
Class XII	May 2022	Bhanpura Public School, Bhanpura	92.0%
Class X	May 2020	Smt. Kamala Saklecha Gyan Mandir, Bhanpura	93.2%

ACADEMIC PROJECTS

BeyondEVENTS: Event Management (Sept 23 – Oct 23)	• Developed BeyondEVENTS, a web application for event creation and organization, supporting both small vendors and large organizers. • Implemented a robust ticket system for guest management and customizable event cards for improved user interaction. • Engineered for scalability and cross-platform accessibility, catering to a diverse user base. • Delivered a dynamic platform that boosted user adoption and received positive feedback, enhancing the event experience.
Neural Network in C++ (Dec 23 – Jan 24)	• Implemented a robust neural network from scratch in C++ utilizing Eigen Library for matrix operations and linear algebra, enhancing computational efficiency. • Achieved significant improvements in training speed and memory management for deep learning models. • Conducted testing and validation of the neural network, ensuring high accuracy and reliability.
FaceRecogPro (Feb 24 – May 24)	• Developed a sophisticated real-time face detection and recognition system. Utilized Haar Cascade in OpenCV with Python to accurately detect facial features such as faces, eyes, nose, and mouth. Designed, trained, and optimized a custom classifier to recognize individual faces with high precision. • This project involved rigorous testing and fine-tuning to ensure reliable performance, making it suitable for various applications requiring accurate face identification.
ASL Translator (Mar 24 – Jun 24)	• Created a real-time American Sign Language translator that recognizes hand gestures and translates them into English letters, leveraging You Only Look Once for object detection and Convolution Neural Network for classification. • Conducted a thorough comparison of the accuracies of both the models on the same dataset, optimizing model parameters and preprocessing techniques to achieve the best performance. • Implemented advanced image processing techniques and model optimizations to significantly improve gesture recognition accuracy, contributing to the development of an effective translation system.

EXTRA – CURRICULARS AND ACHIEVEMENTS

Achievements	• Participated in Major League Hacking's Global Hack Week (Feb 24) • Participated in GeeksforGeeks X Adobe GenSolve (July 24) • Third Position, The Poesis Open-mic Session (Nov 24)
Responsibilities	• Coordinated and executed a well-attended poetry open mic event at The Poesis, attracting around 150 students as both audience members and participants. • Led the design team in creating various posters and promotional materials for multiple events, ensuring cohesive and visually appealing branding. • Organized and executed the inauguration event of the Pi Mathematics Association, overseeing all logistics and behind-the-scenes operations to ensure smooth execution and high attendee satisfaction.
Extracurricular	• Created a functional 3D renderer in Python using the Pygame library, demonstrating advanced programming skills and an understanding of computer graphics principles. • Participated in the music club event as an enthusiastic musician, showcasing skills on both guitar and keyboard. Contributed to live performances, collaborating with fellow musicians to create engaging and memorable musical experiences.

ADDITIONAL INFORMATION

Languages	• English • Hindi