GAUTAM SINGH KAUSHIK

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Education

Vellore Institute of Technology, Bhopal **2022-2026**
B.Tech (CSE with specialization in cloud computing and automation)| **CGPA: 8.99** **(Ongoing)**

Skills

Programming Languages: Java, Python, HTML, CSS, JavaScript

Frameworks & Libraries: TensorFlow, OpenCV, OpenPose, CNN architectures (ResNet101, U-Net)

Technologies & Tools: AWS (EC2, S3, Lambda, Athena), Google Cloud, IBM Cloud, MySQL, MongoDB, Git, Figma, Power BI

Other Skills: Machine Learning, Deep Learning, Computer Vision, Full-Stack Development, Generative AI

Projects

VITON – AI-Powered Virtual Try-On System *02-2025*

- Developed an AI-powered virtual try-on system with **90% alignment accuracy** using **U-Net, OpenPose, ResNet101, and GMM**.
- Improved segmentation accuracy by **15%** using self-correcting human parsing to enhance fitting across diverse body types.
- Prototyped on **Google Colab**, tested with **Gradio**, and currently integrating into a web application.
- **Technologies:** Python, Machine Learning, OpenCV, TensorFlow, Deep Learning
- **Role:** Team Project – AI/ML

Movie Ticket Booking System *04-2025*

- Designed and developed a **full-stack MERN web application** for movie ticket booking.
- Features include **user authentication, seat selection, real-time bookings, and an admin dashboard** for managing movies and shows.
- Implemented a responsive UI using **Tailwind CSS** and integrated REST APIs for smooth backend-frontend communication.
- **Technologies:** MongoDB, Express.js, React.js, Node.js, Tailwind CSS
- **Role:** Individual Project – Full Stack Web Development

Handwritten Digit Recognition System (HDRS) *08-2024*

- Built a digit classification system using the MNIST dataset of 70,000 labeled images.
- Achieved 96.7% accuracy using a Convolutional Neural Network (CNN) for feature extraction and classification.
- Preprocessed input images using OpenCV for noise removal and normalization to improve model performance.
- Designed the system to accurately predict digits (0–9) from raw image input, canvas input in real time.
- **Technologies:** Python, Machine Learning, CNN, OpenCV
- **Role:** Individual Project – Machine Learning & Computer Vision

Achievements, Certifications & Co-Curricular Activities

- Zelestra x AWS ML Ascend Challenge (Team Leader) – **Rank 138**/1500+ (2025)
- SIH 2023 (Internal Hackathon Finalist), Project: price pulse, role: frontend developer
- **Certifications:** Generative AI (IBM), Full Stack Development (MERN – SmartBridge & MongoDB), MongoDB Node.js Developer (SmartBridge), Applied ML (Coursera), AIML & Web Dev – Spring Bootcamp (Merit)
- 3rd Place – Script Writing (Tamasha'23, Ekfraseis Club) | Google Cloud Arcade Participant(from year 2023)

Languages

English, Hindi, German (Basics A1, A2)