

Deo Sagar Kumar

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EDUCATION

Bachelor of Technology in Computer Science Engineering	2022-2026
<i>Vellore Institute of Technology</i>	CGPA: 8.95/10.0
Higher Secondary Certificate (Class 12)	2021
<i>DAV Public School Hazaribag, Jharkhand</i>	Percentage: 91%
Secondary School Certificate (Class 10)	2019
<i>DAV Public School Tapin North, Ramgarh, Jharkhand</i>	Percentage: 92.8%

TECHNICAL SKILLS

Programming Languages: C/C++, JavaScript, Python, HTML/CSS, SQL
Frameworks & Libraries: Node.js, React.js, Next.js, Angular.js, Express.js, Tailwind CSS, Bootstrap
Machine Learning & AI: TensorFlow, Pytorch, OpenCV, MediaPipe, Google Gemini API
Technologies & Tools: GitHub, Postman, RESTful APIs, MongoDB, MySQL, OOPS, Problem Solving (DSA)

EXPERIENCE

Web Developer Intern	February 2025 - April 2025
<i>Raklyar Enterprises</i>	Remote
• Enhanced user interface and frontend performance using Next.js framework, optimizing page load times and improving mobile responsiveness across multiple device breakpoints	
• Crafted and deployed frontend components for image upload functionality and display systems, creating seamless user experience with real-time preview and backend API integration	

PROJECTS

Ocassio - Event Management Platform | Full-stack web application with AI integration

[Live Demo](#)

- Developed comprehensive event management platform using Next.js and TypeScript, enabling users to create, manage, and discover events with image uploads, location mapping, and dynamic pricing
- Integrated secure payment processing using Stripe API, user authentication with Clerk, and real-time data management with MongoDB
- Built responsive chatbot interface and dynamic event discovery features, resulting in increase in user retention across desktop and mobile platforms

Hasthakshar - Indian Sign Language Recognition System | Computer vision and deep learning application

[GitHub Repository](#)

- Built real-time Indian Sign Language gesture recognition system using computer vision and deep learning techniques with custom dataset creation and preprocessing
- Executed skeletal keypoint detection using MediaPipe and OpenCV for accurate hand gesture tracking and stick figure representation for improved model training
- Built and trained deep neural networks using TensorFlow and PyTorch frameworks, achieving 90% accuracy in gesture classification across 26 alphabetic signs

ACHIEVEMENTS AND CERTIFICATIONS

- First Runner-Up, Zelestra ML Ascend Challenge 2025 — Ranked 2nd among 1500+ participating teams nationwide.
- Top 10 Finalist, HackXplore 2025 (SPIT Mumbai) — Selected among 325+ competing teams.
- IBM Certified Generative AI Developer — Achieved 90% score demonstrating strong GenAI proficiency.
- Top 10 Finalist, Odoo Hackathon 2025 — Ranked top 10 out of 20,000+ participants.
- Top 100, Amazon ML Challenge 2025 — Secured Top 100 rank in national machine learning competition.

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

- Social Media Co-Lead, Eureka Club VIT Bhopal - Led promotional campaigns for Advitya-2025 festival, managing content strategy and digital outreach reaching 5000+ students and external participants
- CCL Merit Scholarship Recipient (2022-2024) - Awarded merit-based scholarship by Central Coalfields Limited for maintaining consistent academic excellence and leadership qualities over two consecutive years