

# Deo Sagar Kumar

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## EDUCATION

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

## TECHNICAL SKILLS

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

## EXPERIENCE

<b>Web Developer Intern</b>	February 2025 - April 2025
<i>Raklyar Enterprises</i>	<i>Remote</i>
• 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

<b>Ocassio - Event Management Platform</b>	Full-stack web application with AI integration
<i>Live Demo</i>	

• 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
• Enhanced user interface and frontend performance using Next.js framework, optimizing page load times and improving mobile responsiveness across multiple device breakpoints

<b>Hasthakshar - Indian Sign Language Recognition System</b>	Computer vision and deep learning application
<i>GitHub Repository</i>	

• 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 X AWS ML Ascend Challenge 2025 - Machine Learning Hackathon (Selected from 1500+ participating teams nationwide)
• Top 10 Finalist, HackXplore 2025, SPIT Mumbai - Secured finalist position among 325+ competing teams in prestigious hackathon competition
• IBM Certified Generative AI Developer - Achieved 90% score demonstrating proficiency in building and deploying generative artificial intelligence models
• Top 10 Finalist, Odoo Hackathon 2025 - Selected among top 10 teams from 20,000+ participants in 24-hour innovation challenge, Gandhinagar, Gujarat

## 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