

Deo Sagar Kumar

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EDUCATION

Bachelor of Technology in Computer Science Engineering VIT Bhopal University, Bhopal, Madhya Pradesh	2022-2026 CGPA: 8.95/10.0
Higher Secondary Certificate (Class 12) DAV Public School Hazaribag, Jharkhand	2021 Percentage: 91%
Secondary School Certificate (Class 10) DAV Public School Tapin North, Ramgarh, Jharkhand	2019 Percentage: 92.8%

TECHNICAL SKILLS

Programming Languages: C/C++, JavaScript, Python, HTML/CSS, SQL
Frameworks and Libraries: React.js, Next.js, Express.js, Node.js, Tailwind CSS
Machine Learning and AI: TensorFlow, PyTorch, OpenCV, MediaPipe, NumPy, Matplotlib, Google Gemini API
Technologies and Tools: GitHub, MongoDB, MySQL, Object-Oriented Programming, Data Structures and Algorithms

PROFESSIONAL EXPERIENCE

Web Developer Intern Raklyar Enterprises	February 2025 - April 2025 Remote
<ul style="list-style-type: none">Enhanced user interface and frontend performance using Next.js framework, optimizing page load times by 40% and improving mobile responsiveness across multiple device breakpointsCrafted 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 <u>Live Demo</u>	<ul style="list-style-type: none">Engineered comprehensive event management platform using Next.js and TypeScript, enabling 10,000+ users to create, manage, and discover events with image uploads, location mapping, and dynamic pricingIntegrated Google Gemini AI API for intelligent event summarization, recommendation system, and natural language query processing, improving user engagement by 35%Integrated secure payment processing using Stripe API, user authentication with Clerk, and real-time data management with MongoDBBuilt responsive chatbot interface and dynamic event discovery features, resulting in a 25% increase in user retention across desktop and mobile platforms
Hasthakshar - Indian Sign Language Recognition System Computer vision and deep learning application <u>GitHub Repository</u>	<ul style="list-style-type: none">Built real-time Indian Sign Language gesture recognition system using computer vision and deep learning techniques with custom dataset creation and preprocessingExecuted skeletal keypoint detection using MediaPipe and OpenCV for accurate hand gesture tracking and stick figure representation for improved model trainingBuilt 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