

# Deo Sagar Kumar

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## EDUCATION

### Bachelor of Technology in Computer Science Engineering

2022-2026

VIT Bhopal University, Bhopal, Madhya Pradesh

CGPA: 8.95/10.0

### Higher Secondary Certificate (Class 12)

2021

DAV Public School Hazaribag, Jharkhand

Percentage: 91%

### Secondary School Certificate (Class 10)

2019

DAV Public School Tapin North, Ramgarh, Jharkhand

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

Raklyar Enterprises

Remote

- Enhanced user interface and frontend performance using Next.js framework, optimizing page load times by 40% 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](#)

- Engineered 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 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 MongoDB
- Built 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

[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 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