

Deo Sagar Kumar

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Education

B.Tech in CSE (Cyber Security and Digital Forensics)

VIT Bhopal University, Bhopal

2022-26

CGPA: 8.87

Senior Secondary Education (Class 12)

DAV Public School Hazaribag, Hazaribag

2021

Percentage: 91%

Secondary Education (Class 10)

DAV Public School Tapin North, Ramgarh

2019

Percentage: 92.8%

Technical Skills

C/C++, Python, JavaScript, HTML/CSS, SQL, React.js, Next.js, Express.js, Tailwind CSS, NumPy, Pandas, Git, GitHub, Operating System, MongoDB, MySQL, OOPS, Problem Solving (DSA)

Experience

Freelance Web Developer Intern, Raklyar Enterprises

Remote

Feb 2025 - 45 days

Improved **UI and frontend performance** using **Next.js**, optimizing load times and responsiveness to deliver a more **user-friendly experience** across devices and screen sizes.

Migrated **image upload functionality** from UploadThing to **Amazon S3** within a cloud-based **AWS environment**, enhancing **scalability, reliability, and storage efficiency**.

Projects

Ocassio

[Link](#)

Full-stack event management platform with AI integration and payment processing

Built a **feature-rich event platform** using **Next.js** and **TypeScript** for creating events with images, location, and pricing. Integrated **Google Gemini API** for **AI features**: summarization, sentiment analysis, and custom query handling.

Implemented **real-time event data fetching**, **ticket purchasing with Stripe**, and a dynamic chatbot-style UI, delivering a **seamless user experience** with enhanced functionality.

Tools Used: Next.js, TypeScript, MongoDB, Stripe, Google Gemini API, Clerk, Shadcn/UI

Hashtakshar using Deep Learning

[Link](#)

Computer vision system to recognize and translate Indian Sign Language gestures

Creating a **custom dataset** of **Indian Sign Language gestures** for training the detection model.

Implementing **stick figure representation** for **skeletal keypoint detection** and analysis.

Utilizing **deep learning frameworks** (TensorFlow/PyTorch) for **real-time gesture recognition** achieving **90% accuracy**.

Tools Used: Python, TensorFlow/PyTorch, OpenCV, MediaPipe, NumPy, Matplotlib

Role: Computer Vision & Keypoint Detection Contributor

Achievements

- **1st Runner-Up, Zelestra X AWS ML Ascend Challenge 2025** — selected from **1500+ teams** in a ML Hackathon.
- **Finalist at HackXplore 2025, SPIT Mumbai** – secured **top 10 position** out of **325+ competing teams**.
- **IBM Certified Generative AI Developer** (Score: 90%) — proficient in building and deploying **GenAI models**.
- **Finalist, Odoo Hackathon 2025** — selected among the **top 350** out of **20,000+ teams** in a nationwide 24-hour innovation challenge held at Gandhinagar.

Extracurriculars

- **Social Media Co-Lead, Eureka Club - VIT Bhopal:** Co-led the social media team for driving **promotional campaigns** for Advitya-2025 and reaching **thousands of attendees** through strategic outreach.
- **CCL Merit Scholarship Recipient:** Awarded the **CCL Merit Scholarship** (2022–2024) by Central Coalfields Limited for consistent **academic excellence** over two years.