

Dhruv Singh

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EDUCATION

Tribhuvan College, Nalanda University Centre <i>Bachelor of Science (Hons.) in Data Science</i>	Neemrana, Rajasthan 2023 – Present
Symbiosis Public School <i>Senior Secondary (Class XII) – PCM with Informatics Practices</i>	Dhanbad, Jharkhand 2021 – 2023

EXPERIENCE & RESEARCH

Subharti University <i>Paper Presentation</i>	Remote / Hybrid 2024
Codtech IT Solutions <i>Python Hackathon Participant</i>	Remote 2024

PROJECTS

Physio-Detection System: Virtual Paint <i>Python, OpenCV, MediaPipe</i>	2024
<ul style="list-style-type: none">Developed a computer vision application allowing users to draw on-screen using hand gestures without physical contact.Leveraged MediaPipe for hand-tracking and OpenCV for real-time image processing.Optimized gesture recognition algorithms to reduce latency and improve drawing precision.	

Academic Case Studies <i>Research, Data Analysis</i>	2023
<ul style="list-style-type: none">Microsoft Farmbeats: Analyzed the integration of IoT and AI in precision agriculture to improve crop yields.Waste to Wealth: Investigated bioplastic production methodologies as sustainable alternatives to synthetic plastics.	

TECHNICAL SKILLS

Languages: Python (Intermediate), C++ (Basic), SQL (Basic)
Libraries & Tools: OpenCV, MediaPipe, Pandas, NumPy, QGIS, Git, GitHub
Domains: Data Analysis, Data Visualization, Machine Learning, Computer Vision

LEADERSHIP & EXTRACURRICULAR

Tribhuvan College <i>Event Organizer</i>	Neemrana, Rajasthan 2023
<ul style="list-style-type: none">Coordinated the "Principal's Meet," a summit discussing "Changing Climate & Environment" for local school principals.Organized an inter-school debate competition, managing logistics and participant coordination.	