

Dhruv Singh

+91 8084407155 | singh.dhruv9097@gmail.com | linkedin.com/in/dhruv-singh | github.com/dhruv9097

EDUCATION

Tribhuvan College, Nalanda University Centre

Bachelor of Science (Hons.) in Data Science

Neemrana, Rajasthan

2023 – Present

- SGPA: 8.4 (4th Semester)
- Coursework: Machine Learning, Data Visualization, SQL, Python Programming.

Symbiosis Public School

Senior Secondary (Class XII) – PCM with Informatics Practices

Dhanbad, Jharkhand

2021 – 2023

- Percentage: 74%

EXPERIENCE & RESEARCH

Subharti University

Paper Presentation

Remote / Hybrid

2024

- Authored and presented a research paper titled "A Modern Way to Generate Electricity: Floating Solar Farms".
- Analyzed the efficiency and environmental impact of floating solar photovoltaic systems compared to land-based alternatives.

CodeTech IT Solutions

Python Hackathon Participant

Remote

2024

- Competed in a rigorous Python hackathon focusing on algorithmic efficiency and problem-solving.
- Developed scripts to solve data processing challenges within strict time limits.

PROJECTS

Physio-Detection System: Virtual Paint | *Python, OpenCV, MediaPipe*

2024

- 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 | *Research, Data Analysis*

2023

- **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

Event Organizer

Neemrana, Rajasthan

2023

- 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.