

DEV RISHI VERMA

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OBJECTIVE

Third Year Computer Science student seeking opportunities in Machine learning and Quantum computing related fields.

EDUCATION

Bachelor of technology, JK Lakshmipat University

Expected:2026

Relevant Coursework: Linear Algebra, Statistics, Calculus, Algorithms, Artificial Intelligence, Machine Learning (Stanford), Deep Learning (IIT Ropar), Independent Study on Quantum Algorithms.

CGPA: 8.6 Honor List student (Based on academic excellence)

Quantum Computing Summer School 2024

Relevant Coursework: Quantum Circuit Design, Noise Induction, Error Correction.

Grade: 100/100

EXPERIENCE

Intern

May 2024 - Jul 2024

Defense Research & Development Organization (DRDO)

Dehradun, IN

- Worked under the guidance of scientists at the Defense Electronics Application Lab (DEAL) of DRDO, developing advanced image fusion algorithms to enhance remote sensing data using techniques such as PAN sharpening and Principal Component Analysis (PCA).

Intern

June 2024 – Aug 2024

QWORLD

Remote

- Under the guidance of Professor Jarek Duda and Dr. Pawel Gora, I focused on designing circuits for quantum algorithms using CPT symmetry in 2WQC, aiming to reduce time complexity and improve noise resilience. I presented this work at the Hypercomplex seminar in Poland, and, because of my contributions, I continue to work with them as a member of their 2WQC XPRIZE team.

PROJECTS

- **Grover's Algorithm for crop monitoring:** Working with Dr. Devika Kataria to implement Grover's Algorithm for crop monitoring using AWS Bracket. Currently an independent research work (Work in progress).
- **Lie Detection model:** Developed an advanced lie detection model by integrating computer vision, NLP and voice processing on a multimodal dataset to improve law enforcement investigation methods.
- **Tennis Video Analyzer:** Designed a sports video analytics system for tennis utilizing YOLO and OpenCV, enabling accurate ball tracking and player identification for enhanced performance analysis.
- **Smart Conservatory:** Engineered an Arduino-powered Smart Conservatory System to optimize plant growth and enhance cultivation efficiency.

SKILLS

- **Deep Learning:** Python, C++, PyTorch, Keras, NumPy, Pandas, OpenCV. Skilled in CNNs, RNNs, LSTMs, Transformers, and tasks in computer vision and NLP.
- **Quantum Computing:** Experienced with Qiskit, PennyLane, IBM Quantum Circuit Composer, and AWS Bracket. Proficient in quantum circuit design, simulation, and optimization.
- **Soft Skills:** Research Writing, Problem-solving, Critical thinking, public speaking.

EXTRA-CURRICULAR & LEADERSHIP ACTIVITIES

- Vice President of College Coding club, Host and organizer of various events and seminars.