

Harsh Yadav

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Summary

CS Master's graduate and Systems-focused Engineer with expertise in Linux (Fedora) administration and high-performance development environments. Specialized in resource optimization for low-memory systems, shell automation, and architectural bench-marking. Proven ability to troubleshoot kernel-level boot issues (initramfs) and manage complex software stacks with zero friction.

Skills

- **Systems & Infrastructure:** Proficient in **Fedora/RHEL**; expert in systemd, dnf, and **Disaster Recovery** (initramfs & GRUB bootloader repair).
 - **Workflow Optimization:** Utilizing **CLI-based workflow** with automated status monitoring for real-time Git and system state awareness.
 - **Dev Environment:** Manages a performance-tuned **Neovim (Lua)** stack; experienced in automating tasks via autocmds and persistent undo-tracking.
 - **Automation & Logic:** Python-proficient; focuses on **AI-Augmented Automation** to architect complex shell scripts and system health checks.
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Research Project

- **Comparative Study of QCNN and ResNet-50 for Medical Image Classification**
 - Conducted a detailed analysis of QCNN and ResNet-50 models using the MNIST medical dataset.
 - Evaluated models based on accuracy, precision, recall, F 1-score, and computational efficiency.
 - Used frameworks including TensorFlow, PyTorch, PennyLane, and Cirq for quantum-classical hybrid implementation.
 - Findings demonstrated ResNet-50's superior current performance but highlighted QCNN's potential in future scalable quantum systems.
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Education

- **Master of Computer Science**
 - Guru Ghasidas Vishwavidyalaya, Bilaspur
 - 2022 – 2024 | CGPA: 7.27
 - **Bachelor of Science (Computer Science)**
 - Kamla Nehru College, Korba
 - 2019 – 2022
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Projects & Certifications (GitHub)

- [QCNN vs ResNet](#)
 - FreeCodeCamp - [Responsive Web Design](#)
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References available upon request.