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 autocommands and persistent undo-tracking.
- **Automation & Logic:** Python-proficient; focuses on **AI-Augmented Automation** to architect complex shell scripts and system health checks.

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.

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

Projects & Certifications (GitHub)

- QCNN vs ResNet
- FreeCodeCamp - Responsive Web Design

References available upon request.