Sri Ram Sharma

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Education

United College of Engineering & Research — Prayagraj, UP, India
Bachelor of Technology in CSE (Artificial Intelligence & Machine Learning) — *Aug. 2023 – July 2027 (Expected)*

St. Mary's Convent School — Ghoorpur, Prayagraj, UP, India
Higher Secondary & Secondary Education — *2019 – 2021*

Certifications

MongoDB Certified Associate Developer — In Progress

GitHub Foundations Certification — Expected: August 2026

IBM Virtual Internship Completed — August 2025

Projects

Echo-Sync | *Python, PyTorch, MediaPipe, ONNX Runtime, Rust (Core Logic), Go (SaaS Layer)* July 2026 – Present

- Architected a continuous Sign Language translation system integrating local edge clients with a scalable Go-implemented API gateway.
- Designed a Kinematic Token-Pruning pipeline, orchestrating high-speed Rust components to filter redundant frames via velocity checks, reducing edge CPU load by 30%.
- Deployed an ONNX-quantized Spatio-Temporal Graph Network (ST-GCN) for sub-100ms local inference, using Prometheus to aggregate anonymized client metrics.

Cats vs Dogs CNN Classifier | *TensorFlow, Keras, Gradio, Python, PIL* July 2025 – August 2025

- Developed a custom deep 4-layer Sequential Convolutional Neural Network (CNN) from scratch that achieved a validated 89.98% accuracy on the Microsoft PetImages dataset.
- Implemented an inline-flex horizontal layout engine using Gradio blocks with forced CPU-mode optimization, asynchronous asset clear states, and a sub-30ms execution speed.
- Integrated data augmentation pipelines including shear, zoom, and channel normalization alongside strategic Dropout, Batch Normalization, and Early Stopping constraints to neutralize overfitting.

A-Stride | *Kotlin, Android SDK (API 29+), MVVM Architecture, Local Storage* March 2026 – Present

- Managed the system design and implementation of a minimalist, privacy-focused Android step-tracking engine running entirely on-device.
- Orchestrated hardware-direct sensor interfaces (`TYPE_STEP_COUNTER`) to eliminate battery drain, enforcing zero-internet-permission safety boundaries.
- Executed rigid field testing and data validation on a known course to calibrate a 0.73m stride matrix, achieving a 98.4% precision margin.

Zitron | *FastAPI, Python, Podman, REST API, JSON Framework, Linux Workspace* May 2026 – Present

- Designed and implemented a modular backend microservice utilizing FastAPI to manage stateful application logic and structured JSON endpoints.
- Containerized the local application workspace layer using Podman to guarantee absolute dependency isolation and deterministic environment states.
- Architected clean backend exceptions, handling input data validation, data serialization contracts, and robust error boundaries for developer tools.

Technical Skills

Languages: Python, Java, C, Kotlin, Go, Rust, SQL, HTML/CSS

Frameworks & Tools: FastAPI, Jetpack Compose, Astro, n8n, Ollama, Pixi, Firebase, WordPress

AI, ML & Libraries: PyTorch, NumPy, Scikit-Learn, Hugging Face Spaces, pandas, Matplotlib

Infrastructure & DevOps: Linux (Fedora/Ubuntu), Podman, Docker, Git, GitHub, Prometheus, Grafana, PostgreSQL, MongoDB, MySQL