

Venugopal SR

srvenugopal2002@gmail.com | linkedin.com/in/srvenu | github.com/srvenu | +91 88670 45188

About

Innovative R&D Engineer specializing in **MLOps, distributed AI systems, and LLM-powered applications**. Experienced in designing scalable pipelines with **Docker, Kubernetes, Ray Serve**, and CI/CD automation. Passionate about applying **machine learning, computer vision, and agentic AI** to deliver production-ready solutions.

Education

Sri Krishna Institute of Technology, Bengaluru

B.E. in Computer Science & Engineering

2021 – 2025

CGPA: 9.2 / 10

Experience

Research and Development Engineer

Ninestars Information Technologies Pvt. Ltd.

Jun 2025 – Present — Bengaluru, India

- Designed and deployed distributed ML inference pipelines using **Ray Serve, Docker, and Kubernetes**, reducing latency by 40%.
- Automated MLOps workflows with **CI/CD**, cutting deployment time by 35%.
- Researched and prototyped **LLM-powered applications**, optimizing GPU utilization and containerized serving.

Python Developer Intern

Kennametal India Ltd.

May 2024 – May 2025 — Bengaluru, India

- Built scalable search and analytics tools using **Python, FastAPI, and pandas**.
- Automated material ID mapping, improving raw material tracking efficiency by 25%.
- Contributed to debugging, code reviews, and agile development cycles.

Projects

Indian Sign Language Recognition

[GitHub Link](#)

Computer Vision, Deep Learning, Vision model

- Built a recognition system using **OpenCV** and **TensorFlow** to classify sign language gestures in real time.
- Achieved 90%+ accuracy on validation datasets.

YouTube Video Summarizer & Notes Generator

[GitHub Link](#)

NLP, Transformers, Flask

- Developed an AI-powered tool that generates structured notes from lecture videos with QWEN V7 model.
- Integrated with **React frontend** and backend APIs for PDF export.

Skills

Programming: Python, Java, R

Core Areas: Data Structures & Algorithms, Distributed Systems, Agentic AI, Machine Learning

Machine Learning: Deep Learning, LLMs, Computer Vision (Vision Models), NLP

Databases: PostgreSQL, MySQL, MongoDB

Cloud: AWS, GCE, Azure

MLOps: Ray Serve, langchain, Docker, Kubernetes, CI/CD, FastAPI, REST

Frameworks/Tools: Django, PyTorch, TensorFlow, OpenCV, HuggingFace, Git, React

Languages

English (Fluent)

Kannada (Native)

Hindi (Professional Proficiency)