

# SRIRAM PERIANNAN

Chennai, India

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## EDUCATION

### Vellore Institute of Technology

B.Tech in Computer Science (AI & ML) | CGPA: 8.10

Chennai, India

Sep 2022 – July 2026

## EXPERIENCE

### ML Engineer Intern (Full-time, Onsite)

Sterling Software

May 2025 – June 2025

Chennai, India

- Developed production-ready ML models ( $R^2 > 0.85$ ) to predict API latency, deployed into live systems to improve service reliability in real-time environments.
- Designed a scalable Dask/Polars pipeline that powered the company's first ML-driven monitoring system, and collaborated with the engineering team to deploy it for proactive anomaly detection.

### Student Researcher

Vellore Institute of Technology

April 2024 – Present

Chennai, India

- Developed a VGG16-UNet model for polyp segmentation (Dice score: 85.49%) and a SeResNeXt architecture with dual attention for diabetic retinopathy classification (Kappa score: 88.86%), contributing to advancements in automated medical diagnostics.
- Lead author on two medical imaging papers (submitted with faculty collaborators to peer-reviewed journals), contributing novel methods to clinical AI research.

## PROJECTS

### doc-scraper | Golang, BadgerDB, Open Source 🎧

May 2025 – Present

- Engineered a resilient web crawler in Go for structured documentation extraction, enabling scalable ingestion pipelines for AI/LLM systems.
- Adopted by the open-source community (50+ stars), helping developers streamline knowledge integration into ML workflows.

### CodeSage | FastAPI, Python, CrewAI, Ollama 🎧

Feb 2025

- Built an AI-driven code review backend with modular pipelines (CrewAI + Ollama), automating reviews while preserving developer privacy.
- Designed a hybrid LLM architecture (Gemini API + Ollama), recognized at a hackathon for advancing secure, developer-centric tooling.

### pwsh-neofetch | PowerShell, Open Source 🎧

March 2025 – Present

- Created an open-source Windows alternative to Neofetch (500+ downloads), adopted by Windows enthusiasts for system customization and performance benchmarking.

## TECHNICAL SKILLS

**Languages:** Python, SQL, PowerShell, Golang

**ML/AI:** PyTorch, TensorFlow, scikit-learn, Computer Vision (CNNs), NLP/LLMs (CrewAI, Ollama), Dask, Polars, Pandas, LightGBM, CatBoost

**Developer Tools & DevOps:** Docker, Git, GitHub Actions, FastAPI

**Databases:** BadgerDB, PostgreSQL, SQLite