SAI SHARAN KOLLURU

AI Engineer • Machine Learning • MLOps / DevOps • Software Engineer

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Summary

Ambitious AI & Software Engineer with experience in Machine Learning, Computer Vision, NLP, MLOps and DevOps. Experienced in end-to-end AI systems: data collection, model development, deployment, monitoring, and optimization. Based in Paris and actively improving French.

Selected Projects

ARES — Autonomous Road Event Surveillance System — *PyTorch, OpenCV, CNN+LSTM, Docker, CI/CD, Grafana*
• Real-time detection with 92% accuracy
• Processes 16–20 FPS
• CI/CD with Docker + GitHub Actions
• Monitoring via Grafana/Prometheus

SCAN-X — X-Ray Security Detection — *YOLOv8, TensorFlow, OpenCV*
• Detects weapons with 87% precision
• Grad-CAM explainability
• Custom augmentation pipeline

Multilingual Vision-Caption Generator — *Transformers, CNN, LSTM, FastAPI*
• Captions in English, French, Hindi
• Trained on 60k+ pairs
• Deployed with FastAPI + Streamlit

MLOps Pipeline — Loan Risk Model — *Jenkins, Docker, MLflow, AWS*
• Automated training → deployment pipeline
• Auto-retraining on new data
• Reduced deployment errors

Internship

Machine Learning Intern — BrightiX (Jan 2025 – Jun 2025)
• Built Loan Prediction pipeline (preprocessing, training, evaluation)
• Improved ROC-AUC by 13% via feature engineering
• Created dashboards for business insights

Skills	Certifications
Python, PyTorch, TensorFlow, OpenCV, YOLO, Scikit-Learn	AWS Cloud Practitioner
Docker, GitHub Actions, Jenkins, MLflow, Kubernetes (basic)	TensorFlow Developer (Google)
AWS (EC2, S3), GCP, SQL, MongoDB	IBM Machine Learning with Python
FastAPI, Flask, Git, Linux, Jupyter	Deep Learning Specialization (Coursera)
	DevOps Essentials

Hobbies & Freelance

• Freelance photography & video editing — vistavoyager.lens (DaVinci Resolve, Lightroom, Photoshop)
• Content creation: Instagram reels, cinematic edits, anime edits