

SAI SHARAN KOLLURU

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

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Summary

Ingénieur en Intelligence Artificielle et Software Engineering, spécialisé en Machine Learning, Computer Vision, NLP, DevOps/MLOps. Expérience dans le développement de systèmes IA de bout en bout. Basé à Paris, j'améliore activement mon français.

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

Python, PyTorch, TensorFlow, OpenCV, YOLO, Scikit-Learn
Docker, GitHub Actions, Jenkins, MLflow, Kubernetes (basic)
AWS (EC2, S3), GCP, SQL, MongoDB
FastAPI, Flask, Git, Linux, Jupyter

Certifications

AWS Cloud Practitioner
TensorFlow Developer (Google)
IBM Machine Learning with Python
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