

SAI SHARAN KOLLURU

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

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PROFESSIONAL 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.

WORK EXPERIENCE

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

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

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