Stephane KPOVIESSI

Machine Learning / AI Engineer

Available for a permanent position

Machine Learning • AI Agents • RAG

From models to AI applications integrated into business workflows.

Contact

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github.com/KPO-Tech
seshat-ai.com

Skills

ML & Computer Vision
PyTorch, Scikit-learn, preprocessing, augmentation, evaluation, generative models.

Agents & RAG
LLM, LangGraph, MCP, tool calling, embeddings, hybrid search.

Data & storage
Python, PySpark, Pandas, SQL, PostgreSQL/pgvector, Chroma.

Engineering
FastAPI, Go, Azure Databricks, AWS, Docker, Git/CI-CD.

Education

JUNIA ISEN Lille
Engineering degree - Big Data & Data Science, 2026.

JUNIA ISEN Rabat
Bachelor's degree - Electronics & Digital Systems, 2023.

CPMS
Mathematics, Physics and Engineering Sciences, 2020 - 2022.

Certifications

Microsoft AI Engineer Career Path
Microsoft Learn • **In progress**

Create ML Models in Microsoft Azure
Microsoft / Coursera • 2023

Supervised ML: Regression & Classification
DeepLearning.AI / Stanford Online 2023

Data Analysis with Python
freeCodeCamp • 2023

Languages

French - native
English - B2, Linguaskill Business

Leadership & associations

JUNIA ALUMNI
Network Committee

Vice President
Sept. 2024 - Aug. 2025
Led alumni network activities and professional events.

Communications Lead
Sept. 2023 - Aug. 2024
Managed announcements and promoted initiatives.

Profile

Engineering graduate in Big Data & Data Science, turning ML models into testable applications. At Sylvagreg, I built an experimental 3D reconstruction solution; at Allianz, I improved data workflow performance and validated result consistency. With Seshat, I develop agents that automate tasks and retrieve information from documents.

Experience

Seshat - Founder & AI Engineer — Sept. 2026 - Present
Open-source agentic AI and automation platform

- Designed an embeddable Go agent runtime with SDK and gRPC API to integrate local models and multiple LLM providers into applications.
- Automated tasks through parallel sub-agents and MCP tools, with permissions and human approval to control their actions.
- Built a document pipeline combining ingestion, hybrid retrieval and source-backed answers to make documents usable by agents.

seshat-ai.com • github.com/KPO-Tech/seshat

Allianz France - Data Engineer / Data Scientist — Nov. 2025 - Apr. 2026
P4D, Advanced Data & Climate - Paris

- Modernized an insurance datamart: analyzed 15,000+ lines of SAS and migrated processing to Python/PySpark on Azure Databricks, with 150+ business rules in a Medallion architecture.
- Achieved a **speedup of over 8× on the measured workflow** after migration from SAS to Azure Databricks, with identical memory capacity.
- Validated business indicators through geospatial data quality checks and automated SAS/Python parity and regression tests.

Groupe Sylvagreg - Machine Learning Engineer — May 2024 - Aug. 2024
Lille, France

- Developed an experimental 3D reconstruction solution from 2D images using photogrammetry and PyTorch generative models.
- Automated preprocessing and inference; deployed with AWS/Docker and a visualization interface to test and inspect reconstructions.

github.com/EngineerProjects/Sylva3dGUI • github.com/EngineerProjects/sylva3D

LYNE ET FRERES SARL - Data Analyst — 2023 - 2025
Strategic support assignments - Benin / Remote

- Automated internal activities by deploying open-source AI tools, including OpenWebUI, and supporting user onboarding.
- Developed Python/Pandas and Streamlit reports and dashboards to track commercial and operational data.

Selected Projects

SOLAR IRRADIANCE FORECASTING - Scikit-learn, Pandas, FastAPI
Developed a solar irradiance forecasting pipeline from weather data: temporal features, model evaluation and a FastAPI API to expose predictions.
github.com/EngineerProjects/solar-forecasting

AUTONOMOUS WASTE-COLLECTION ROBOT - AceObject - YOLOv8, OpenCV, Dijkstra
Developed a YOLOv8/OpenCV pipeline to detect and track waste separately from obstacles, with Dijkstra route planning for collection. Explored reinforcement learning for navigation decisions.