

Akli Yalaoui

Data Scientist — Artificial Intelligence Engineer

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Profile

Passionate about data and artificial intelligence, I design innovative solutions combining technical expertise and advanced analysis. Always curious, I am committed to turning challenges into opportunities through AI and data science.

Professional Experience

R&D Data Scientist Segula Technologies, Paris (March 2024 - Sept. 2024)

- Designed and implemented advanced solutions for complex time series analysis.
- Developed an innovative autoencoder integrating DTW as a loss function for autonomous data exploration.
- Applied smoothing and resampling techniques to uncover hidden trends in noisy data.

Machine Learning Engineer Jurist, Freelance (Sept. 2022 - July 2023)

- Leveraged Document AI to automatically extract key metadata (titles, dates, references) from complex PDF documents.
- Used advanced NLP techniques for named entity recognition and keyword extraction, enabling more effective indexing and search.
- Developed a personalized recommendation system based on embeddings generated by NLP models, significantly enhancing user experience.

Smart Touma Gemini API Developer Competition

- Designed an innovative application to convert handwritten notes, equations, and diagrams into professional PDF or LaTeX files.
- Implemented an AI agent and Retrieval-Augmented Generation (RAG) system for interactive document search and responses.
- Integrated Gemini Document AI API to accurately convert handwritten content into usable digital formats, improving smart search and Q&A features.

Education - Certifications

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| • M2 Machine Learning for Data Science | Paris Cité (Sept. 2023 - Sept. 2024) |
| • State Engineer in Intelligent Systems and Data | ESI (Sept. 2018 - July 2023) |
| • Professional Data Scientist with Python | Datacamp (April 2022 - July 2022) |

Skills

Data Science: Machine Learning (ML), Deep Learning (DL), AI, Python, R, Scikit-learn, TensorFlow, PyTorch, Advanced NLP, Time Series Analysis, Exploratory Data Analysis (EDA), Visualization.

Web Development: Design and development of REST APIs (Flask, Node.js, FastAPI). Front-end development with React.js, Next.js, Tailwind CSS. Interactive visualizations with D3.js.

Databases and Tools: SQL, Elasticsearch, Supabase, MongoDB, PostgreSQL, Docker, Linux, Git, CI/CD, Prompt Engineering, C, Java.