Zakaria Laabsi

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PROFILE

Experienced in back-end development for machine learning, API creation, and computational performance enhancement, I have made contributions in AI and data engineering. My expertise was showcased in presenting "Data Poisoning / AI Hacking" at the S3C cybersecurity conference in France, and further sharpened through active participation in international AI hackathons.

PROFESSIONAL EXPERIENCE

Data Engineer - Supply Chain, Logistics, Sales & AI *(Permanent)* **Nov. 2023 – Present**
Acelys Services Numériques *Montpellier, France*

An IT consulting leader with over 20 years of experience, Acelys employs over 200 professionals, specializing in digital transformation and bespoke technological solutions.

- Implemented scalable cloud infrastructures on AWS (S3, Lambda, and RDS) with Terraform, achieving 40% better data retrieval efficiency and 30% lower operational costs in retail and supply chain sectors.
- Streamlined API query automation using Python, boosting database efficiency by 65% through parallel, concurrent, and asynchronous programming techniques. Reduced API response time by 50% and enhanced data processing capacity by 35%.
- Developed and showcased a TensorFlow and Keras-based poisoned Convolutional Neural Network model at a cybersecurity convention, emphasizing the necessity for robust AI models in mitigating security risks.

BI / Data Engineer *(Internship)* **Mar. 2022 – Aug. 2022**
Crédit Agricole Technologies & Services *Montpellier, France*

With over 1700 experts, this division of the world's largest cooperative bank innovates in IT solutions to enhance banking operations and customer experiences.

- Led the deployment of an Elasticsearch index, visualizing electronic signature KPIs for 39 regional banks, supporting 6000+ branches, 72000+ advisors, and 24+ million clients with intuitive, real-time national data insights.
- Spearheaded the development and deployment of CI/CD DevOps pipelines using the ELK stack (Elasticsearch), Jenkins and Ansible, resulting in significant process optimization and efficiency gains.
- Implemented a Kafka-based scalable architecture, customizing it to meet diverse business entity needs and enhancing data processing capabilities.

PROJECT EXPERIENCE

GenieFront - Generative Vision for Front-End Development **Oct. 2023**
Team Member / AI Engineer *AI Hackathon (Lablab.ai event)*

- Spearheaded the GenieFront project, transforming visual designs into dynamic web content using Azure Computer Vision, Keras-OCR, and GPT-4, with Streamlit for UI and Python for backend processing.

Autonomous AI Agents Hackathon: SIMBAD - Microtargeting Solution **Aug. 2023**
Team Member / Backend Engineer *AI Hackathon (Lablab.ai event)*

- Developed a microtargeting solution with autonomous AI agents, integrating technologies like SuperAGI, LangChain, Weaviate, and GPT-4 API, focusing on user-defined input and database integration in the SIMBAD project.

EDUCATION

M.Sc. in Statistics & Data Science **2020 – 2022**
University of Montpellier *Montpellier, France*

M.Sc. in Risk Management **2020 – 2022**
IAE Montpellier (University Schools of Management) *Montpellier, France*

SKILLS

- **Technical Skills:** Python | R | SQL | C++ | CUDA | Numba | TensorFlow | PyTorch | Git | Jenkins | Ansible | Docker| Kubernetes | FastAPI | WandB | LangChain | Weaviate | AWS | Terraform | Azure.
- **Languages:** French (*Native*)| English (*Advanced*) | Spanish (*Intermediate*)
- **Interests:** Mountain & Forest Activities (Hiking, Kayaking, Trekking) | Hackathons with international teams
- **Volunteering:** Contributed to the Dyslex'IA project at Data for Good (NPO), developing an AI-based adaptive learning algorithm to assist children with dyslexia.