AMINE EL FARSSI

AI Engineer | Data Scientist | Cloud Architect

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LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

AI Engineer with 5 years of AI/ML/DS experience, currently building production AI agents at one of Belgium's largest banks. Combining deep expertise in machine learning, GenAI with strong cloud architecture and DevOps skills. Active participant in architecture design boards, driving technical decisions for scalable AI systems on AWS.

PROFESSIONAL EXPERIENCE

AI Engineer

KBC Bank & Insurance, Leuven, Belgium   *2023 – Present*

- Building the bank's first internal AI agents for production using AWS Bedrock and AgentCore
- Designing and architecting cloud-native AI solutions; active participant in architecture design boards
- Developing RAG systems for internal knowledge management and document retrieval
- Building event-driven architectures using EventBridge, SQS, Lambda for scalable AI pipelines
- Implementing AgentOps frameworks for monitoring, evaluation, and deployment of AI agents

Data Scientist

KBC Bank & Insurance, Leuven, Belgium   *2021 – 2023*

- Developed and deployed Anti-Money Laundering (AML) models for transaction monitoring
- Built ML models for customer analytics, risk assessment, and regulatory compliance
- Implemented large-scale data pipelines using PySpark for distributed model training

Big Data Engineer

JEMS Group, France   *Mar 2021 – Aug 2021*

- Developed data pipelines using Apache Spark for large-scale data processing
- Implemented cloud data warehousing solutions using Snowflake; designed ETL workflows

Data Scientist

Bioceanor, Valbonne, France   *Jul 2020 – Mar 2021*

- Developed predictive models for sea water quality analysis using deep learning (LSTM)
- Implemented time-series forecasting solutions; contributed to production deployment pipelines

TECHNICAL SKILLS

AI/ML: LLMs, RAG Systems, AI Agents, LangChain, LangGraph, Strands, Anthropic SDK, PyTorch, TensorFlow, Scikit-learn, MLflow, Hugging Face

AWS: Bedrock, AgentCore, SageMaker, Lambda, ECS, ECR, API Gateway, EventBridge, SQS, DynamoDB, RDS, IAM, ALB, S3

Programming: Python (Expert), TypeScript, SQL, Bash, HCL (Terraform)

Data & DevOps: PySpark, Snowflake, Docker, Kubernetes, Terraform, CI/CD, OTEL

EDUCATION

MSc Applied Data Science — Data ScienceTech Institute (DSTI), France, 2020–2021

Diplôme d'Ingénieur, Civil Engineering — Strasbourg, France (MSc equivalent)

LANGUAGES

French (Native) • **English** (Fluent) • **Dutch** (B1 - Currently Learning)