BOUSLIKHANE **Soufiane**

Data Engineering Student · Generative AI Entausiast
Available for a 6-month internship — starting January 2026

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Professional Experience

GENERATIVE AI Internship | ⚲ NIA-GEN *Casablanca, Morocco*

Designing GenAI Agents for Multimodal Slide Generation and Analytical Reasoning *June 2025 - August 2025*

- Developed "SlideNIA", a GenAI agent using LangChain to generate slide decks from PDFs, videos, audio, and images via natural prompts.
- Built an AI assistant to automate data analysis and insight generation from tabular datasets using LLM-based reasoning.
- Deployed both solutions as FastAPI + React web apps with real-time chat and file upload capabilities.

  • *Tools:* OpenAI API (GPT-4o), LangChain, FastAPI, React (TypeScript), Vite, Tesseract OCR, FFmpeg, Python.

Data Science Internship | ⚲ ARIA Group *Casablanca, Morocco*

Customer Reachability Optimization Using ML and Dash *June 2025 - August 2025*

- Built a predictive model to identify optimal call times based on customer behavior across time, gender, and location.
- Applied machine learning techniques to segment clients and predict contact success using scikit-learn and Pandas.
- Delivered interactive dashboards with Dash and Plotly to visualize insights and recommend targeted contact strategies.

  • *Tools:* Python, Pandas, scikit-learn, Dash, Plotly.

Projects

PULSAR — SaaS for Environmental Monitoring & Water Resource Management

- Developed a SaaS platform leveraging LLMs, RAG, and geospatial analytics to monitor water quality and groundwater levels.
- Integrated Sentinel and Landsat satellite data to detect pollution patterns and assess climate impact.
- Designed KPIs and dashboards aligned with Morocco's Water Strategy and UN SDGs to support public institutions.

  `Geospatial Analytics` `ML` `LLM` `RAG` `SaaS`

CV2Interview — GenAI Agent for Interview Questioning and Career Guidance

- Built a LangChain agent to analyze CVs and generate personalized interview questions and career path suggestions.
- Created modular tools for skill extraction, profile reasoning, and recommendation using Gemini and FastAPI.
- Deployed a FastAPI + React web app with real-time interaction and file upload features.

  `LangChain` `FastAPI` `Gemini` `LLM` `React`

Real-Time Social Media and News Analysis with ML and Topic Modeling

- Designed a real-time NLP pipeline with Apache Kafka to process social media and news streams.
- Applied VADER, LDA, and K-means for sentiment analysis, topic modeling, and content clustering.
- Built Dash dashboards to visualize sentiment trends and emerging themes across platforms.

  `Apache Kafka` `NLP` `LDA` `Dash` `K-means` `VADER`

Skills

Programming Languages	Python, R, Java, SQL/NoSQL, C, HTML/CSS.
Generative AI	LangChain, LLM Agents, Prompt Engineering, API-based LLM Integration (OpenAI, Gemini), Ollama (local LLMs), Hugging Face, RAG, Multimodal AI.
Machine Learning	scikit-learn, Pandas, NumPy, topic modeling, clustering, VADER, LDA, spaCy, Gensim.
Frameworks	FastAPI, Dash, ReactJS, Vite, FFmpeg, Tesseract OCR, PyMuPDF, pdfplumber.
Tools	Git, GitHub, Docker, PostgreSQL, MySQL, Linux, Windows, Figma, Markdown.

Education

Data Engineering Degree - GD *Rabat, Morocco*

National School of Computer Science and Systems Analysis (ENSIAS) *September 2023 - Present*

Preparatory Classes for Grandes Écoles (CPGE) – TSI *Mohammedia, Morocco*

CPGE LTM **Rank :** 178/610 *September 2021 - june 2023*

LANGUAGES

English	Full professional proficiency.
French	Bilingual.
Arabic	Mother tongue.

EXTRACURRICULAR ACTIVITIES

- **President** at Forum GENI Entreprises ENSIAS
- **Head of Projects & Quality** at Junior Entreprises ENSIAS
- **Content Creator and Media Team Member** at ENSIAS TV