OTHMAN SAMIH

Data Scientist / AI Engineer

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Education

IA School	**2024 − 2025**
Master's degree in Data Science (Specialization in AI and Management)	*Lyon, France*
Higher Normal School of Technical Education, ENSET	**2022 − 2024**
Master's degree in Artificial Intelligence and Distributed Systems	*Mohammedia, Morocco*
Faculty of Sciences and Technologies, FST	**2019 − 2022**
Bachelor'sdegree in Mathematics and Computer Science	*Settat, Morocco*

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, PHP, SQL

Machine Learning: ML/DL models, embeddings, NLP, Compter Vision

Technologies/Frameworks: Langchain, LangGraph, CrewAI, Smolagents, Docker, AWS, TensorFlow, NumPy, Pandas, Seaborn, Matplotlib, Langsmith, OpenCV, Scikit-Learn, MCP, FastAPI, Uvicorn, Pydantic, Selenium, Chroma, Pinecone, Gradio, ImageHash, PyTube, imgaug, Plotly, Duckduckgo, Groq, Exa, mlxtend, Ultralytics, Streamlit, Unstructured

Experience

Ayming	**Apr. 2025 − Sep. 2025**
AI Engineer Intern	*Lyon, France*

- Built AI agent prototypes and a flexible multi-agent architecture tailored to business needs.
- Designed supporting tools and evaluated low-code/no-code platforms for business integration.
- Conducted a state-of-the-art review of existing AI agent frameworks.
  Tech: Python, Langchain, LangGraph, CrewAI, Smolagents, AWS, n8n, Flowise, Snaplogic, Mindstudio, Dify

Capgemini Engineering	**Mar. 2024 − Jul. 2024**
Data Scientist Intern	*Casablanca, Morocco*

- Built a real-time system to detect speed bumps and potholes using vehicle-mounted cameras.
- Integrated a distance estimation feature to evaluate proximity to road hazards.
- Enhanced driver safety through timely and accurate hazard detection.
  Tech: Python, OpenCV, Ultralytics, ImgAug, SORT, CVAT, MakeSense, Yt-dlp

Projects

Agents Powered Newsletter	**Dec. 2024 − Jan. 2025**

- Automated research, editing, and formatting for personalized newsletter creation.
- Designed a modular architecture to gather, edit, and assemble HTML newsletters.
- Developed a Streamlit-based GUI for an intuitive and seamless user experience.
  Tech: Python, CrewAI, Streamlit, Render, Exa, Docker, OpenAI

Coffee Shop Customer Service Chatbot	**Oct. 2024 - Nov.2024**

- Built an AI chatbot for a coffee shop app using LLMs and NLP for order handling and recommendations.
- Designed a modular agent-based architecture for orders, menu queries, and suggestions.
- Implemented a guard agent to filter irrelevant or off-topic queries.
  Tech: Python, Scikit-Learn, Pandas, Pinecone, OpenAI, Llama, mlxtend, Runpod

Certifications

- AI Agents Fundamentals
- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders, Reinforcement Learning
- Machine Learning Specialization
- Machine Learning A-Z™: Python & R in Data Science [2023]
- Natural Language Processing with Classification and Vector Space
- Neural Networks and Deep Learning
- Improving Deep Neural Networks
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models
- Deep Learning Specialization

Languages

English: Advanced   **French:** Advanced