Hassen Amri

ARTIFICIAL INTELLIGENCE ENGINEER

Generative AI Engineer and **AI Technical Lead** specializing in designing and building intelligent agent solutions. Passionate about developing cutting-edge AI systems that leverage **Natural Language Processing (NLP)**, **Retrieval-Augmented Generation (RAG)**, **Graph RAG**, and **LLM fine-tuning** to create adaptive, context-aware, and high-performance **AI agents**.

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WORK EXPERIENCE

Senior Generative Ai Engineer / WATsNEXT

Dec 2025 - PRESENT / Full-time, Sousse

- Developing and optimizing **NLP models** for information extraction, text classification, summarization, and semantic understanding
- Integrating and **fine-tuning LLMs** for production use cases
- Designing and implementing **RAG pipelines** to improve accuracy and factual grounding
- **Building agentic AI architectures** capable of reasoning, planning, and interacting with tools and environments
- Automating workflows and testing using Selenium and Playwright
- **Deploying AI** systems using Docker, CI/CD, and cloud platforms

Artificial Intelligence Technical Lead / Quicktext

Feb 2024 - Dec 2025 / Full-time, Sousse

- Led AI development for **Velma**, a **multilingual chatbot** (**30+ languages**) across major messaging platforms.
- Built **web scraping modules**, **Q-Assistant** (AI email assistant), and **Q-Phone** (AI voice assistant) for the hospitality domain.
- Developed advanced **Natural Language Processing (NLP)** pipelines to enhance understanding, context retention, and dialogue flow across AI systems.
- Built **NLU models** for intent classification, entity extraction, and context understanding in AI-driven assistants.
- Built **AI voice assistants** using **ASR (Automatic Speech Recognition)** and **speech-to-speech models** for natural multimodal interaction.
- Built **fully generative text conversation chatbots** leveraging **Function calling** and **MCP (Model Context Protocol)** servers for dynamic, adaptive dialogue management.

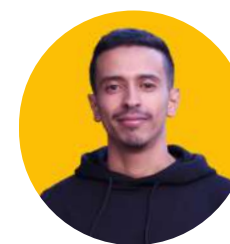### Data Science Instructor / EPI Educational Group

Sep 2023 - Mai 2024 / Part-time, Sousse

- Deliver courses in Data Science (Machine learning, Deep Learning, etc.).
- Mentor and supervise student projects.
- Assess students through exams and practical assignments.
- Update course content based on technological advancements.

Data Scientist & Fullstack Developer / Tekab.dev (2 years)

Jan 2022 - Nov 2023 / Full-time, Sfax

- **AI Model Development & Deployment**: Train, test, and deploy ML/DL models, integrating them via APIs for seamless application functionality.
- **Data Processing & Quality Assurance**: Analyze, prepare, and ensure the quality of datasets for optimal AI performance.
- **Scalable Deployment**: Utilize **Docker** for containerization and manage deployment for efficient and reliable operations.

EDUCATION

2021 - 2023 | FSS

MASTER'S IN NETWORK SYSTEMS AND CLOUD COMPUTING

2018 - 2021 | FSS

BACHELOR DEGREE IN COMPUTER NETWORKS

SKILLS

NLP, NLU
Standard RAG, Graph RAG
MCP (Model Context Protocol)
ASR (Speech to speech models)
Python, FastAPI
Sicket-learn, Pandas
TensorFlow, Pytorch, OpenCV
PostgreSQL, Redis
React.js, Nest.js
Docker, Docker-compose
Git, CI/CD

AWARDS

- **2ND PLACE** – IDSS-AI FOR AGRICULTURE (KAGGLE)
- **6TH PLACE** – CAIN'S JAWBONE MURDER MYSTERY (ZINDI)
- **TOP 4%** – MULTI-CLASS CLASSIFICATION (KAGGLE)

WORK EXPERIENCE

AI Engineer & Fullstack Web Developer / Smart Ways Innov.

Apr - Jun 2021 / Hybrid Internship

- **AI Model Development & Integration**: Train and integrate ML/DL models, including voice recognition, into applications.
- **Data Processing & IoT Connectivity**: Collect, process, and optimize data while ensuring seamless IoT hardware integration.
- **App & API Development**: Design and develop mobile applications with frontend interfaces and API connectivity for smart home control.

Data Scientist / IBEForum

Aug 2020 - Dec 2020 / Remote Internship, India

- **Event Data Extraction & Analysis**: Utilize web scraping to collect and analyze event-related data.
- **Revenue Forecasting**: Develop models to predict event revenue based on extracted data.