Mohamed Wael GHAZEL

✉ mohammedwael.ghazel@esen.tn 📱 +33 07 51 25 89 94 📱 +216 53 828 801 🌐 waelghazel.github.io 🔳 linkedin.com/in/wael-ghazel

About

Artificial Intelligence specialist with strong software engineering skills, experienced in building machine learning models, automation tools, and intelligent systems. I bridge functional requirements with technical implementation by designing, coding, and deploying AI-driven solutions that improve decision-making, security, and business efficiency across Cloud, IoT, and enterprise environments.

Professional Experience

Business Analyst — NeoLedge
06/2023 – Present

- Providing expertise and cost estimation for processing requirements.
- Creating automation tools in C#.
- Developing and managing API connections between company products and partner systems.
- Testing new product extensions to ensure quality and proper functioning.
- Configuring the product according to client requirements.
- Managing and maintaining the product.
- Assisting clients by diagnosing, debugging, and resolving issues.
- Creating dashboards to support clients in informed decision-making.
- Working with databases for data management and optimization.
- Developing LLM- and RAG-based solutions for automated extraction and generation of business documents.

Business Intelligence Developer (Intern) — Medianet
02/2022 – 05/2022

- Designing a data warehouse and developing ETL pipelines to consolidate multiple data sources.
- Developing BI tools to track and manage team projects with dynamic dashboards.
- Automating data collection, cleaning, and preparation scripts with Python.

Education

PhD — Artificial Intelligence
National School of Computer Science (ENSI) (09/2025 – Present)
Topic: *Proposal of an adaptive and intelligent security framework for Cloud of Things environments*.
Research focuses on designing a distributed, multi-agent security framework to detect, anticipate, and manage emerging threats.

Research Master's — Artificial Intelligence
Higher School of Digital Economy (09/2022 – 12/2024)
Thesis: *Proposal of an adaptive immune security system for the Cloud of Things (CoT)*.
Specialization: optimization, deep learning, reinforcement learning, cybersecurity, cloud computing, and IoT.

Bachelor — Business Intelligence
Higher School of Digital Economy (09/2019 – 06/2022)
Specialization in data analysis, BI, and decision support systems.

Selected Projects

TalentParse — AI-Powered Web Application for Smart Recruitment
07/2025 – 10/2025

- Developed an AI-powered web platform for automatic CV analysis and candidate selection.
- Extracted key information (skills, experience, education, certifications) from PDF, DOCX, and TXT CVs.
- Used **Gemma3 (Ollama)** language model for scoring and intelligent profile-job matching.
- Integrated OCR module for scanned CV processing and structured insight generation.
- Designed a full system to accelerate and improve recruitment processes, making HR analysis faster and data-driven.

AE-RAE — Hybrid AI Security Model
01/2024 – 12/2024

- Designed a hybrid model combining Autoencoder and Reinforced Autoencoder to detect known and zero-day attacks in Cloud of Things networks.
- Academic research project at the Higher School of Digital Economy.

Client: Higher School of Digital Economy
Elise.Automate

07/2024 – Present

- Developed an automation tool for business processes, deployed in large institutions.

Clients: Crédit Agricole, SNCF, Banque de France, Université Catholique de Louvain...

Elise.BI

08/2023 – Present

- Designed and managed Power BI dashboards for document tracking and real-time productivity monitoring.

Clients: Crédit Agricole, SNCF, Banque de France, Ministry of Finance, European Council of Alsace...

Musify — Personal Project

11/2020 – 06/2021

- Developed a social music platform with MVC architecture in PHP.

- Created an admin panel for user and content management.

Soft Skills

- Fast learner and adaptable to varied environments

- Autonomous, proactive, and responsible

- Clear and effective communication, cross-functional collaboration

- Requirement analysis, synthesis, and problem-solving

- Time management, prioritization, and organization

- Teamwork, coordination, and collaborative mindset

Technical Skills

Artificial Intelligence & Data Science

- Advanced Python: PyTorch, TensorFlow, Scikit-learn, pandas, numpy

- AI Models: Transformers, Autoencoders, GANs, Deep Reinforcement Learning (DQN)

- Natural Language Processing (NLP), Language Models (LLM), Intelligent Agents

- Retrieval Augmented Generation (RAG) for automation and document generation

- Visualization and reporting: Matplotlib, Seaborn, Power BI, Tableau, MetaBase

Data Engineering & ETL

- Design, optimization, and automation of ETL/ELT pipelines (Talend, Python, C# scripts)

- SQL (MySQL, PostgreSQL) and NoSQL database management and optimization

- API orchestration and integration for automated data flows

- Monitoring and maintenance of automated data systems

Software Development

- Python: scripts, automation, backend development (Django)

- C#: automation development, API integration, scripting

- PHP (MVC): web development and backend management (Musify)

- API development and multi-language integrations

- CI/CD, version control, and continuous deployment

Certifications

Google Data Analytics — Coursera
Neural Networks & Deep Learning — Coursera
C for Everyone — Coursera

Languages

Arabic

French

English