

# Elbara Mouaffak

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## Professional Summary

Ambitious AI Engineering student (4th Year) with practical expertise in Full-Stack Web Development, AI Agents, and Automation Systems. Proven track record of delivering efficiency improvements (up to 70%) through intelligent automation. Seeking opportunities to leverage strong problem-solving skills in innovative software and AI projects.

## Technical Skills

- Core Domains:** AI Agent Design, Web Development, Automation Systems, Machine Learning.
- Languages & Frameworks:** Python, JavaScript, React.js, Node.js, Express.js (MERN Stack).
- Tools & Platforms:** n8n, OpenAI API (LLMs), p5.js, Three.js, Shopify, WooCommerce.
- Data & Database:** Database Management, Data Extraction, Automation Pipelines.

## Professional Experience

Freelance Web Developer & AI Automation Specialist

Self-Employed | Remote

Jan 2024 – Present

- AI Agent Workflow Design:** Designed and deployed autonomous AI agent workflows using n8n and LLMs, automating complex data processing tasks and customer support interactions.
- Efficiency Optimization:** Implemented custom automation pipelines that reduced client manual operations by up to 70%, significantly improving business scalability.
- E-Commerce Development:** Built and customized e-commerce platforms on Shopify and WooCommerce, integrating secure checkout systems and automated email notification sequences.
- Creative Coding:** Developed interactive "vibe coding" projects using p5.js and Three.js to generate music-synced visuals and interactive web art.
- Client Management:** Collaborated with diverse international clients to deliver tailor-made technical solutions, maintaining long-term professional relationships.

## Key Projects

### Customer Service AI Agent

- Designed and implemented an intelligent AI agent specifically for customer service automation.

- **Outcome:** Achieved a 20% reduction in response time within a simulated testing environment.

### Hospital Management System (MERN Stack)

- Led a team of 3 developers in building a comprehensive full-stack web application for hospital management.
- **Outcome:** Successfully managed the project lifecycle and delivered the final application ahead of schedule.

### Automated Data Extraction Script

- Developed a Python script to automate data scraping and extraction from various online sources for research purposes.
- **Outcome:** Improved data collection efficiency by 30% for a personal research initiative.

## Education

Bachelor of Engineering in Artificial Intelligence

University of Batna 2, Algeria

2022 – Present (In Progress)

- **Coursework:** Machine Learning, Deep Learning, Computer Vision, Natural Language Processing (NLP), Data Structures & Algorithms, Software Engineering.
- **Foundation:** Completed two years of core Computer Science studies before specializing in AI.

## Certifications & Languages

- **Certifications:** AI Engineer (DataCamp).
- **Languages:** English (Professional), French (Professional), Arabic (Native).