Elbara Mouaffak

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Aspiring Artificial Intelligence Engineer with a strong foundation in software development and hands-on experience leading full-stack projects. Passionate about leveraging AI and web technologies to create innovative, impactful solutions. Seeking opportunities to contribute to cutting-edge tech projects while advancing expertise in AI and software engineering.

EDUCATION

Bachelor's Degree in Artificial Intelligence

University of Batna 2   Batna, Algeria • 01/2022 - Present

- Built a solid foundation in computer science, machine learning, and artificial intelligence.
- Engaged in academic and personal projects, including Java applications and full-stack web development.

CERTIFICATIONS

Ethics of AI   06/2025 - Present

university of helsinki online course

Supervised Machine Learning: Regression and Classification   12/2024

DeepLearning.AI

AWARDS & SCHOLARSHIPS

hackathons

gdg and gdgc

PROJECTS

Excel(Invoice Management System)

Microsoft Excel, VBA (optional), Formulas, Conditional Formatting
Developed a smart and easy-to-use Excel tool for managing invoices tailored for freelancers, small businesses, and service providers. The tool automates invoice creation, tracks payments, calculates totals with taxes, and maintains a database of clients and services.

Travel AI Agent – Intelligent Trip Planning Assistant

Developed an AI-powered travel assistant capable of generating personalized travel itineraries, recommending destinations, booking suggestions, and answering user questions in natural language. The agent simplifies travel planning by integrating AI reasoning with real-time travel data.

Hospital managemnet system – Full-Stack Developer

As a Full-Stack Developer, I led the end-to-end development of a comprehensive Hospital Management System designed to streamline and automate core operations such as patient registration, appointment scheduling, doctor management, billing, and medical records. My responsibilities included designing the database architecture, developing robust backend APIs, and building an intuitive frontend interface for both admin and medical staff.

PUBLICATIONS

Intelligent Fast Food Ordering System Using Machine Learning

elbara mouaffak

Developed a smart ordering and inventory management system tailored for fast food businesses. The system leverages machine learning algorithms to predict demand trends and automate inventory restocking, improving operational efficiency and minimizing waste.

Optimizing Hospital Resource Allocation Using AI: A Practical Approach

Personal Blog – elbara.ai

Summarized findings from a thesis project on applying artificial intelligence to improve resource allocation in hospitals. Discussed real-world constraints, ML implementation using Python, and challenges in healthcare data.

SKILLS

Programming Languages: c, C++, Java, JavaScript, Python

Web Development: CSS, Express, HTML, Node.js, PHP, React

Database Management: MongoDB, MySQL, oracle db, postgre sql

AI & Data Science Tools: NumPy, Pandas, Scikit-learn

Software & Tools: Figma, Git, GitHub, Visual Studio Code

SoftSkills: Communication, Leadership, Problem-Solving, ProjectManagement, Teamwork