IMAD EDDINE ABID

COMPUTER SCIENCE ENGINEER | AI & DATA SCIENCE MASTER'S

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PROFESSIONAL SUMMARY

AI & Data Science Engineer with a Master's degree and specialized expertise in Big Data Analytics and Machine Learning. Skilled in building pipelines for massive data processing, cloud computing, and web scraping. Proficient in Python, Java, and full-stack frameworks, with a track record of transforming complex datasets into actionable insights. Committed to continuous learning in cybersecurity and applying cutting-edge AI technologies to solve real-world problems

EDUCATION

Master's in Artificial Intelligence & Data Science

University of El Oued, Algeria | 2024 – 2026

Bachelor's in Mathematics and Computer Science

University of El Oued, Algeria | 2021 – 2024

EXPERIENCE

Software Developer at Programming Company (2022–2023)
- Developed and maintained web applications using HTML, CSS, Python, and Java.
- Collaborated with team members to deliver high-quality software solutions.

Freelance Web Developer (2022–Present)
- Designed and developed a Smart Agriculture Website using artificial intelligence for remote farm management, integrated with e-commerce and Algerian payment methods.
- Created an Accessories Store Website featuring product browsing, shopping cart functionality, and user-friendly navigation.

Field Agent "Commando" Mobilis – Algeria | 2022
- Provided on-site technical support and resolved network issues.
- Promoted Mobilis services and engaged directly with customers.
- Participated in marketing campaigns and organized promotional events.
- Worked in a fast-paced team environment to enhance service quality.

Social Media Manager (2020–2024)
- Managed and grew social media pages, increasing audience engagement and follower base.
- Designed professional, visually appealing posts tailored to target audiences.

Accountant | SARL Khiari BETON Company
- Recording financial transactions and preparing accounting reports.
- Handling invoices, payments, and cost analysis.

Data Entry Clerk – Sonelgaz
- Entered and processed customer data accurately within the company's internal system.
- Verified and updated records to ensure data consistency and integrity.
- Utilized Microsoft Excel and database management tools for daily operations.
- Collaborated with the billing and administrative departments to correct errors and streamline workflows.

SKILLS

Soft Skills
- Critical Thinking & Problem Solving
- Communication & Team Collaboration
- Time Management
- Negotiation & Persuasion
- Flexibility & Adaptability
- Creativity & Innovation
- Customer Service
- Sales & Promotion

Management Skills
- Event Management
- Project Management
- Energy Resource Management
- Strategic Planning
- Energy & Time Management

Digital Skills
- Mathematical Foundations for AI
- Database Management (MySQL)
- Digital Marketing Basics
- Social Media Management
- Cybersecurity network security.

Technical Skills

AI & Data Science :
- Machine Learning,
- Deep Learning,
- NLP
- Computer Vision (YOLO, OCR)
- Big Data Analytics
- Social Network Analysis.

Programming:
- Python
- Java
- SQL
- C
- PHP
- R
- Dart
- C++

Development:
- Web (Django, Flask, HTML / CSS)
- Flutter, JavaFX

Tools & Concepts:
- Git / Github
- PowerBI
- Graph
- Theory
- Cloud Computing
- VS Code
- Algorithms
- Google Colab
- Linux
- Docker
- MongoDB
- Hadoop
- Spark

RELEVANT COURSEWORK & FOCUS AREAS

• **Big Data & Analytics: Processing massive datasets, Advanced Data Visualization, Social Network Analysis (SNA)**

• **Artificial Intelligence: Natural Language Processing (NLP), Pattern Recognition, Machine Learning for IoT (AIoT).**

• **Research & Ethics: Academic Ethics Scientific Research Methodology.**

LANGUAGES

Arabic (Native language) English (good)
French (Intermediate)   German (Learning)

PROJECTS

Smart Agriculture — AI-Powered Farm Management

- Intelligent platform for remote monitoring and e-commerce of farm products.
- Deployed crop-health inference with accuracy of 92% and automated 20 management alerts/month; enabled online sales with local payment rails.
- Key Contributions:
- Trained ML models for crop health and yield prediction.
- Built management dashboard and storefront for producers.
- Integrated Algerian payment solutions and order workflows.
- Skills/Tools: Python, ML/AI, Django/Flask, Data Analysis, Web Development

Big Data Analytics in social media (Master's Capstone)

• Developed a scalable pipeline to collect and analyze massive social media datasets for trend detection and user behavior analysis.

• **Key Contributions:**

• Implemented **Graph Mining algorithms** (PageRank, Louvain) to identify key influencers and detect communities within the network.

• Applied **Natural Language Processing (NLP)** techniques for sentiment analysis and topic modeling on user-generated content.

• Visualized complex network interactions using advanced data visualization tools to derive actionable insights.

• Skills/Tools: Python, Big Data Analytics, NLP, Graph Theory, Network Analysis, Data Visualization.

Vignette OCR & Text Recognition System

• Designed an end-to-end Optical Character Recognition (OCR) system for detecting and extracting text from complex vignette images.

• **Key Contributions:**

• Deployed **YOLO** (You Only Look Once) models for precise text localization and object detection.

• Built and trained a **CRNN** (Convolutional Recurrent Neural Network) architecture for high-accuracy text recognition.

• Optimized the pipeline for real-time performance on a Kaggle competition dataset.

• Skills/Tools: Deep Learning, Computer Vision, YOLO, CRNN, PyTorch/TensorFlow, Python.

RealEstate — Property Management Web App

- Full-stack application for listings, search, and admin workflows.
- Shipped responsive UI and reduced average search latency by 30%; processed 50 successful payments/month.
- Key Contributions:
- Built responsive front end (HTML, CSS, JavaScript).
- Implemented back end (Flask), SQL schema, search and filters.
- Integrated payments and secure user authentication/authorization.
- Skills/Tools: Python, Flask, HTML/CSS/JS, SQL, Auth, Payments

CloudSim — Cloud Computing

- Simulated cloud environments and virtualized resource management using the CloudSim toolkit.
- Evaluated performance/cost trade-offs and improved scheduling policies by 15% in response time.
- Key Contributions:
- Designed and implemented VM allocation and scheduling policies.
- Modeled realistic workloads and ran experiments across 5 scenarios.
- Analyzed metrics: response time, throughput, utilization, and cost.
- Skills/Tools: Java, CloudSim, Simulation, Performance Analysis
  - Time-Shared: 44.06 avg finish time
  - Space-Shared: 66.90 avg finish time

CERTIFICATIONS & COURSES

- **• 1 Million Prompters - Dubai Future Foundation**
- **• Artificial Intelligence Fundamentals: About AI Techniques**
- **• Machine Learning with Python – IBM**
- **• Python 101 for Data Science – IBM**
- **• Machine Learning Foundations: Linear Algebra –**
- **• Machine Learning Foundations: Calculus –**
- **• Machine Learning Foundations: Statistics –**
- **• EF SET English Certificate (C1 Advanced)**
- **• Machine Learning Foundations: Probability –**