# ESSRA HMIDA

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## EDUCATION

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| **Engineering Cycle in Data Engineering** | 09/2023 – present |
| Faculty of Sciences of Sfax | |
| **Integrated Preparatory Cycle in Computer Science** | 09/2021 – 06/2023 |
| Faculty of Sciences of Sfax | |
| **Bachelor of Experimental Sciences** | 09/2020 – 06/2021 |
| Taha Hussein High School, Megrine, Tunis | |

## PROFESSIONAL EXPERIENCE

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| **Talan Tunisia** | 07/2024 – 08/2024 |

Project: Develop a Data Analysis & Recommend System leveraging Machine Learning for disease symptom prediction and intelligent insights using LLM & RAG.

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| **Sopra HR Software** | 07/2023 |

Project: Development of a library manag application covering book tracking, loan management, and administrative operations.
- Technologies: Spring Boot, PostgreSQL, Postman.

## ACADEMIC PROJECTS

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| **Automated Deployment and Scalability of a TikTok Trends Analysis Platform (end-of-year project)** | 03/2025 – present |

- Design a platform to collect, analyze, and visualize TikTok trends in real-time.
- Tools: TikTok-Api , MongoDB , Apache Spark , Apache Airflow , Grafana , Docker , Kubernetes,streamlit.

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| **ELK Cluster Implementation** | 11/2024 – 12/2024 |

- Built a high-availability ELK Stack cluster for real-time log analysis and monitoring
- Tools: Elasticsearch , Logstash, Kibana.

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| **Hadoop Cluster Setup** | 05/2024 |

- Configured 3-node Hadoop cluster (HDFS/YARN) with MapReduce for distributed data processing.
- Tools: Hadoop, MapReduce, Linux.

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| **Product Boycott Scanner** | 04/2024 – 05/2024 |

- Mobile app to scan product barcodes, check boycott status, and track product history.
- Tools: Android Studio, API open food facts.

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| **Sales Data Analysis & ETL Modeling** | 11/2023 – 12/2023 |

- Sales analysis and creation of a multidimensional data warehouse (ETL).
- Tools: Microsoft SQL Server, SSIS, SSAS,Power BI.

## SKILLS

- Programming: C, C++, Java, Python
- Big Data : Hadoop, Spark, Kafka, Hive, ELK Stack
- DevOps: Git, GitHub, Docker, Kubernetes
- Data Science: Machine Learning, Deep Learning, Data Warehousing, Business Intelligence

## CERTIFICATIONS

- MOS Excel
- Learning Linux Basics Course & Labs
- Cloud Computing Fundamentals

## AWARDS

- 2nd place in the Master Faster Competition (Data Science - Machine Learning)
- 2nd place in the DevFest Competition (Big Data - Kafka & Hive Cluster Setup)

## ASSOCIATIVE LIFE

- Secretary General at GDG on Campus FSS
- Webmaster at IEEE SIGHT Group FSS

## LANGUAGES

- Arabic | French | English