

EDUCATION

ESPRIT school of Engineering (CGE Member)

Master's in Computer Science Engineering, Specialization in Data Science (with Honors)

Tunis, Tunisia

Oct 2024

SKILLS SUMMARY

- **Programming Languages :**
  - **Data Base Management systems :**
  - **Big Data and Cloud :**
  - **Data Analytics and Visualization :**
  - **DevOps :**
  - **Machine Learning :**
  - **Languages:**
- Python, SQL,R Java and Scala .

NoSQL(Mongo DB) , MySQL server , PostgreSQL

Spark, Hadoop, kafka , Airflow, AWS (Lambda, Glue) and Azure.

Power BI ,Pandas, NumPy, Tableau, Seaborn and Matplotlib.

CI/CD ,Docker, Git, Jenkins, Kubernetes and SonarQube.

TensorFlow, Keras, Scikit-learn and NLTK.

Arabic(Native); French (Advanced) and English (Advanced) .

EXPERIENCE

Dassault Systèmes | [Link](#)

Data Engineer & Analyst

End-Of-Studies Internship

Vélizy-Villacoublay, France

Feb 2024 – Jul 2024

- Developed a real-time streaming data pipeline that transferred data from a Data Lake to Data Factory, resulting in a 25% increase in data ingestion speed and improved processing efficiency.
- Crafted and launched six real-time interactive dashboards using Data Perspective, enabling the visualization of critical data insights that informed strategic decisions for ongoing R&D projects.
- Fine-tuned Transformer models, enhancing its performance and response accuracy by 90% for a chatbot prototype.

ESPRIT-Tech | [Link](#)

Data Scientist Intern

Tunis, Tunisia

Jun 2023 – sept 2023

- Implemented convolutional neural networks (CNNs) for an image denoising system, achieving high-performance noise reduction. Conducted accuracy evaluation across multiple noise models to optimize system effectiveness.

KEY PROJECTS

Data streaming pipeline | [Link](#)

Tools: [Airflow / Python / Kafka / Zookeeper / Spark / Cassandra / Docker]

- Optimized a data engineering pipeline that orchestrates the ingestion, processing, and storage of data. Containerization of components with Docker for easy deployment and scalability.

ETL pipeline for Twitter data extraction | [Link](#)

Tools: [Airflow / Python / AWS /S3 Bucket]

- Designed an ETL pipeline to extract data from Twitter, preprocess it, and load it into an AWS S3 bucket.

DevOps End-To-End Project | [Link](#)

Tools: [Jenkins / Nexus / Docker / Git / Spring boot / SonarQube / Prometheus / Grafana]

- Streamlined the CI/CD pipeline for a Spring Boot backend by automating code integration, enforcing quality control with SonarQube, deploying using Docker, and implementing real-time monitoring with Prometheus and Grafana. Configured email alerts for build and deployment statuses.

COVID-19 Data Exploration with Tableau and SQL | [Link](#)

Tools: [Tableau / SQL Server / Excel]

- Extracted, cleaned, and transformed large datasets using SQL for accurate analysis and reporting.
- Developed interactive dashboards in Tableau to visualize key metrics such (deaths, cases, and vaccination rates.)
- Performed in-depth trend analysis by country, comparing critical indicators to uncover insights and support data-driven decision-making.

HR Data Analytics with Power BI | [Link](#)

Tools: [Power BI / Power Query / Excel/ DAX]

- Cleaned data with Power Query and created three Key HR indicators (headcount, leave, salaries)
- Developed advanced dashboard using DAX Calculations

CERTIFICATIONS

AWS Cloud Practitioner , NLP Specialization , Pwc Power BI Job Simulation , Accenture Data Analytics and Visualization  
KPMG Data Analytics , Python for Data Science , NVIDIA AI ,