



# Sofiene Chaabouni

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## ABOUT ME

Student in Software engineering, I am a highly motivated individual with a passion for machine learning, deep learning, data management and analytics, constantly seeking to expand my knowledge and skills in these fields.

## WORK EXPERIENCE

01/10/2024 – CURRENT Toulouse, France

**DATA ENGINEER APPRENTICE AIRBUS**

- Develop data ingestion pipelines with integrated data quality checks and investigations with the production line.
- Develop, structure, and organize departmental data to optimize workflows.
- Design a comprehensive data ontology to improve data organization and accessibility.
- Develop dashboards for analytics and KPIs development.

05/02/2024 – 26/07/2024 Toulouse, France

**INTERNSHIP IN CLOUD ONTOLOGY AND DATA MODELLING AIRBUS OPERATIONS SAS**

- Identify, collect, and prepare data
- Model the data within its existing ontological context
- Implement the ontology in a real application with a functional data model
- Use Python, PySpark, JavaScript, TypeScript, Ontology Modeling tools

19/06/2023 – 19/08/2023

**SUMMER INTERNSHIP IN DATA MANAGEMENT AND ANALYTICS WITH MICROSOFT FABRIC BIWARE ENTREPRISE - (TUNIS, TUNISIA) -**

- Completed a Proof of Concept (PoC) for Microsoft Fabric, demonstrating its practical application in real-world scenarios.
- Identify the strengths of Microsoft Fabric and align them with our team's objectives.
- Executed a use case project that involved data ingestion, transformation, collection, understanding, and reporting.
- Leveraged Microsoft Fabric, Azure services, and Power BI Desktop for the comprehensive use case project.

01/09/2022 – 01/02/2023

**INTERNSHIP: WEB AND MOBILE DEVELOPMENT EVADAM | FRAUD DETECTORS - (TUNIS, TUNISIA) -**

- Developed an iframe with React Js for a solution called "Ztrust".
- Contributed to developing a mobile application from scratch "Hannini".

## EDUCATION AND TRAINING

07/10/2024 – 31/12/2025 Toulouse, France

**MS IN TECHNOLOGICAL INNOVATION MANAGEMENT** Toulouse Business School

09/2019 – 2024

**ENGINEERING CYCLE OF NETWORK AND TELECOMMUNICATION (RT)** INSAT (The National Institute of Applied Sciences and Technology)

09/2015 – 06/2019

**BACCALAUREATE IN MATHEMATICS** The Pioneer Elite School of Ariana

## PROJECTS

01/01/2023 – 06/2023

**Development of an IoT device and mobile application for water quality assessment based on Machine learning**

► **Accepted for publication at the 22nd International Conference on CyberWorlds (CW 2023)**

- Utilized various computer vision approaches to estimate the turbidity class.
- Implemented Machine Learning and Deep Learning techniques for classification tasks.

- Developed a mobile application for data collection.
- Employed an IoT platform for acquiring turbidity values.

Link <https://ieeexplore.ieee.org/document/10337584>

02/2023

## Big Data projects

- Batch processing using Hadoop HDFS and Map Reduce.
- Batch processing and streaming using Spark.
- Streaming using Spark and Kafka.
- NoSQL Databases with HBase.

## DIGITAL SKILLS

### Operating Systems :

Linux | MacOS | Windows

### Databases/Server :

My SQL | Data Ontology | MongoDB | SQLite | Nest Js | SQL Server | Express | NoSQL Database: HBase

### Programming Languages :

Python | Javascript | C/C++ | HTML | JAVA (Object oriented programming) | SQL | CSS

### Other Softwares/Tools :

React Js | Microsoft Fabric | Spark | React Native | web scraping using puppeteer | Git | Power BI | Hadoop | SQL Server Management Studio | Azure Data Lake Storage

## CERTIFICATIONS

### Professional Scrum Master 1 (PSM1)

01/04/2023

### The Test of English for International Communication (TOEIC)

24/05/2023

### Microsoft Azure AI Fundamentals (AI 900)

05/02/2023

### Supervised Machine Learning : Regression and Classification

### Advanced Learning Algorithms

## LANGUAGE SKILLS

### ► French (Full Professional Proficiency)

### ► English (Full Professional Proficiency)

### ► Arabic ( Mother tongue )

### ► Spanich ( Basic User )

## EXTRACURRICULAR ACTIVITIES

2017 – 2018

### Founding member in LEO( Leo club leading generation)

- Donation action :Provided assistance to underprivileged families by distributing food and clothing.
- Citizenship training.

2020 – 2021

### Sponsoring team member in Tunirobots

Our event is organized by young students and future engineers, it inspires to promote robotics in our country and to highlight the various Tunisian and foreign skills in this field aiming to earn a prestigious place among similar international events .