BEN TOUHAMI MOHAMED RIDA

Data engineering student

About me

Enthusiastic data engineering student at the National School of Applied Sciences of Al Hoceima, driven by a passion for IT and data. Eager to learn and contribute to challenging projects, I possess strong foundational skills in data engineering. Committed to continuous growth, I am excited about the opportunities to apply my knowledge and skills in real-world scenarios

Contacts

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Languages

- **Englsih** (intermediate)
- **Frensh** (intermediate)
- **Arabe** (Native)

Expertises

- **Big Data**
  - Spark - hadoop - Data Warehouse kafka - Airflow - Web Scraping(BeatifulSoup/ Selenium)
- **Machine Learning**
  - classification - clustering - Regression - scikit-learn -Pandas
- **Deep Learning**
  - NLP - CNN -RNN -LSTM
- **DataBases**
  - Oracle - Mysql - Cassandra - MongoDB - SQLServer - PostgreSQL
- **Programming languages**
  - Python - Java (Spring) - C - PL/SQL - Html - Css -javascript- Shell
- **Operating System**
  - **L**inux (Ubuntu) - Windows

Projects

patent Analysis

This project leverages big data for comprehensive patent analysis. APIs collect data, **MongoDB (on-premise)** store it, **Apache Spark** analyzes it, and **Power BI** visualizes insights. A **Flask** web app allows users to search and select patents for further analysis.

Optimized Spell Checker with Minimal Edit Distance

I built a spell checker from scratch using minimal edit distance. This tool corrects spelling errors by analyzing word similarities and incorporates strategies such as checking the first letter, length, and phonetics for improved accuracy.

Hybrid Regression for Apartment Price Prediction and Recommendation

This real estate app uses web scraping to collect data and then predicts prices with a powerful **hybrid regression** model. It recommends similar apartments based on user input and budget. All this is delivered through a user-friendly web interface built with **Flask** and common web technologies **html, css and js.**

Grade management application

The project builds a grade management application in **Java**. It lets you manage student grades, create reports for meetings (in Excel format), and connects to a **MySQL** database for data storage.

Student Management Application

Designed and developed a user-friendly student management application with **Tkinter** in **Python**. Seamless integration with **MySQL** for optimal data management, offering a complete and efficient solution.

Design and Development of a File System

Key contribution to the development of a file system in Python, **with focus on users system design** and creation of custom commands. Enriching experience that strengthened my **Python** programming skills, while playing a significant role in the success of the project

Education

Data Engineering
2022-2025 National School of Applied Sciences of Al Hoceima

Preparatory cycle
2020-2022 National School of Applied Sciences of Al Hoceima

Baccalaureate of Science in Mathematics
2019-2020 Molay Ali Chrif High School, Al Hoceima

Certificates