BEN TOUHAMI MOHAMED RIDA

DATA ENGINEERING STUDENT

About Me :

Enthusiastic data and software engineering student at the National School of Applied Sciences of Al Hoceima, driven by a passion for IT, data, and data science. Eager to learn and contribute to challenging projects, I possess strong foundational skills in data engineering/science and software development. Committed to continuous growth, I am currently seeking an end-of-year internship to apply my knowledge and skills in real-world scenarios and further develop my expertise.

CONTACT

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TECHNICAL SKILLS

- **Big Data & BI Tools**
  - Spark - hadoop - Data Warehouse - kafka - Airflow - Web Scraping(BeatifulSoup/ Selenium)

- **Machine Learning**
  - classification - clustering - Regression - scikit-learn

- **Deep Learning**
  - NLP - CNN - RNN -LSTM

- **DataBases**
  - Oracle - Mysql - Cassandra - MongoDB- SQLServer - PostgreSQL

- **Programming languages & Framworks**
  - Python - Spring boot(java) - Spring Data JPA - React - C - PL/SQL Html - Css - javascript- Shell

- **Operating System**
  - Linux (Ubuntu) - Windows

- **Version Control**
  - git - github

LANGUAGES

- **Arabe** (Native)
- **English** (intermediate)
- **French** (intermediate)

CERTIFICATES

- Big Data with Spark and Hadoop Essentials – IBM, Coursera
- Data Warehousing and BI Analytics Essentials – IBM, Coursera
- NoSQL Databases Essentials – IBM, Coursera
- ETL and Data Pipelines with Shell, Airflow, and Kafka – IBM, Coursera
- Machine Learning with Apache Spark – IBM, Coursera

EDUCATION

- **Data Engineering & Preparatory cycle**
  - 2020-2025 National School of Applied Sciences of Al Hoceima
- **Baccalaureate of Science in Mathematics**
  - 2019-2020 Molay Ali Chrif High School, Al Hoceima

PROFESSIONAL EXPERIENCES

- **AI Data Ingestion Pipeline for AI Applications - Internship at Shitbricks Startup**
- **Pytesseract (OCR):** Used for extracting data from PDFs.
- **Cohere API:** Extracts metadata from the content of files, structures the files, and applies embeddings to chunks of structured text.
- **MongoDB Atlas (cloud):** Stores the structured files, metadata, and embeddings.
- **FastAPI:** Backend of the application for human validation.
- **React:** Frontend of the application for human validation.
- **Airflow:** Automates the pipeline from the bronze layer to the gold layer.
- **Postgres:** Stores validation logs.
- **Docker:** Containerizes the application.

ACADEMIC AND PERSONAL PROJECTS

- **Patent Analysis Project**
- **BeautifulSoup & APIs** : Used for collecting patent data from web pages and various APIs.
- **MongoDB Atlas (Cloud)** : For storing the collected patent data.
- **Apache Spark** : For data analysis and processing of the stored patent data.
- **Postgres(Data Warehouse)** : For storing transformed patent data in a structured format for further analysis.
- **SQLAlchemy** : For managing database operations and interactions with PostgreSQL.
- **Power BI** : For visualizing insights and analysis from the data.
- **Flask Web Application** : For building the user interface where users can search for patents and select specific patents for further analysis.

- **Real Estate Apartment Price Prediction and Recommendation Project**
- **BeautifulSoup/Selenium:** Used for web scraping to collect real estate data from web
- **Python (Scikit Learn, pandas, etc.):** For data preprocessing and building machine learning models.
- **Hybrid Regression Model:** Predicts property prices based on the collected data.
- **Recommendation System:** Suggests similar apartments based on user preferences.
- **Flask & HTML/CSS & JavaScript:** building a user-friendly web interface to display
- predictions and recommendations.

- **Design and Development of an Exam Scheduling Application**
- **Spring Boot:** Used to build the backend of the application.
- **Spring Data JPA:** For managing and interacting with the database.
- **React:** Used to build the frontend of the application for user interaction and scheduling management.
- **MySQL:** For storing exam schedules and related data