



BEN TOUHAMI MOHAMED RIDA

DATA SCIENCE AND 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

- 📞 | +212650421062
- ✉ | bentouhamimohamedrida@gmail.com
- 📍 | AL HOCEIMA, MOROCCO
- 💻 | Open to remote work
- 🐙 | @BenTouhamiMR.github
- 🖱 | @BenTouhamiMR.portfolio
- 🌐 | @BenTouhamiMR.linkedin

TECHNICAL SKILLS

- **Big Data & BI Tools**
 - Spark - hadoop - Data Warehouse - kafka - Airflow - Web Scraping(BeautifulSoup/ Selenium) - Power BI
- **Machine Learning**
 - classification - clustering - Regression - scikit-learn
- **Deep Learning**
 - NLP - CNN - RNN -LSTM-Keras
- **DataBases**
 - Oracle - Mysql - Cassandra - MongoDB- SQLServer - PostgreSQL
- **Programming languages & Frameworks**
 - 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)
- **French** (Advanced)
- **English** (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

- **AI Trends Chatbot with Azure & RAG Technique**
- **Azure Functions:** Scrapes AI trends twice daily with BeautifulSoup.
- **Azure Cosmos DB:** Stores raw data (bronze layer).
- **Azure Databricks:** Transforms data into chunks (silver) and embeddings (gold).
- **Azure AI Search:** Powers intelligent retrieval.
- **Azure Data Factory:** Automates the pipeline.
- **FastAPI & Cohere API:** Implements RAG for dynamic responses.
- **Next.js & TypeScript:** Builds the frontend.
- **Azure Static Web App:** Hosts the UI.
- **Azure Container Apps:** Deploys the backend.
- **Real Estate Apartment Price Prediction and Recommendation Project (2nd Place in ML Competition - Oujda, Morocco)**
- **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.
- **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) :** Storing transformed data in a structured format for 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.
- **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:** For building the frontend, enabling user interaction and scheduling management.
- **MySQL:** For storing exam schedules and related data
- **Docker:** containerizing the application and simplifying deployment across environments