Îmad HARIR
Data Engineer / Data Scientist

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⦿ Casablanca, Morocco   🗓 23 years old   🚗 Driving License B

A recent graduate in **computer engineering**, I am passionate about **Data Engineering**, **Data Science**, **Big Data**, and **Artificial Intelligence**. With a solid academic background, relevant projects, and a **Google Professional Data Engineer certification**, I have acquired deep skills in data analysis, predictive modeling, and the development of innovative solutions. I am seeking an **employment** opportunity to put my **skills** into practice and contribute to the development of cutting-edge projects.

🎓 EDUCATION

2021 - 2024	**State Engineer in Computer Sciences**, The National School of Applied Sciences Berrechid (ENSA).
2019 - 2021	University Diploma in Technology, **DUT** – Higher School of Technology Agadir. **Major : Computer Engineering**.
2019	High School Diploma in Mathematical Sciences, Option B – Al Khawarizmy Technical High School. **Honors : With Distinction**.

💼 EXPERIENCES

Feb 2024 Jun 2024	**Final-Year Project, NATIONAL OFFICE OF ELECTRICITY, CASABLANCA**
	❯ Analyzed electricity consumption using advanced time series methods such as STL decomposition and Dickey-Fuller stationarity test.
	❯ Developed electricity consumption forecasting models using deep neural networks (LSTM, GRU) to improve forecast accuracy.
Jul 2023 Aug 2023	**Application Internship, CBI, CASABLANCA**
	❯ Design and development of an integrated project management solution using Power Platform, with advanced features such as an interactive Gantt chart, custom Power Apps components, and Power Automate automations to enhance operational efficiency.
Jul 2022	**Initiation Internship, SCHNEIDER ELECTRIC, CASABLANCA**
	❯ Deployment of AudioCodes desktop phones.
Aug 2021 Sep 2021	**Final-Year Internship, KADIR DISTRIBUTION, CASABLANCA**
	❯ Development of an interface for managing different levels of studies in a school.

🖥 PROJECTS

AMAZON BOOK SCRAPER AND DATA STORAGE : Developed an automated scraping pipeline to extract information on books from Amazon and store it in a **PostgreSQL** database. Utilized **Google Cloud Composer** (based on **Apache Airflow**) to orchestrate and schedule data collection tasks, ensuring daily ingestion and deduplication. The project follows an **ETL** (Extract, Transform, Load) architecture, including a **Python** scraping module and infrastructure deployed using **Terraform**.

GOOGLE CLOUD PUB/SUB INFRASTRUCTURE WITH TERRAFORM : Developed an automated infrastructure on **Google Cloud Platform** for real-time stock market data processing. The project includes the creation of **Google Pub/Sub** resources, **Google Cloud Functions** triggered by **Cloud Storage** events, and data ingestion into **BigQuery** for analysis. Used **Terraform** to deploy and manage the infrastructure, ensuring efficient orchestration of components, including Pub/Sub topics and subscriptions, storage buckets, and BigQuery tables.

HANDWRITTEN DIGITS DETECTION AND FACIAL MASK DETECTION PROJECT : The model was trained on a large dataset of individuals with and without masks, demonstrating successful detection accuracy.

PREDICTION OF USED CAR PRICES WITH GRADIENT BOOSTING : Machine learning project to predict used car prices. Use of a Gradient Boosting regression model, including encoding categorical variables and creating new features. The model was trained and evaluated on training and test sets, showing robust performance in predicting used car prices.

SKILLS

Programming Languages	Python, Java, Javascript, R.
Libraries	Keras, TensorFlow, scikit-learn
Cloud	Google Cloud Platform (GCP)
Database Management Systems	MySQL, Oracle Database, IBM Db2, PostgreSQL, SQLServer, MongoDB, Cassandra
Query Languages	SQL, CQL
Operating Systems	Windows, Linux
Tools	Talend
BI Tools	Power BI, IBM Cognos Analytics
Frameworks and Tools	Apache Spark, Hadoop, Apache Kafka, Apache Airflow, Terraform
Design and Modeling	UML, Merise, BPMN.

LANGUAGES

> **Arabic** – Native language
> **French** – Fluent
> **English** – Intermediate

CERTIFICATES

> Google Professional Data Engineer
> IBM Data Engineering
> IBM Big Data and Spark

STRENGTHS

> Autonomy
> Stress Management
> Teamwork