



Mohamed AIT IHIE

Big Data and Cloud Computing Engineer

EDUCATION

Higher Normal School of Technical Education (ENSET) | Mohammedia September 2020 - June 2023

Engineer in Computer Science (Specialization: Cloud Computing and Big Data Engineering)

Faculty of Science and Technology (FST) | Mohammedia September 2018 - June 2020

DEUST MIP (Mathematics, computer science and physics)

Mohamed V high school | Casablanca September 2017 - July 2018

High school diploma in Mathematics

WORK EXPERIENCE

E-Solution | Casablanca

R&D Engineer Analyst July 2023 - Now

- Led the development of advanced solutions leveraging computer vision, transformer-based models, and Visually-rich Document Understanding technologies.
- Designed and implemented a high-throughput information extraction system capable of processing hundreds of invoices daily, regardless of structure or layout, for Morocco's largest supermarket chain, utilizing cutting-edge OCR and document understanding technologies.
- Developed an AI-powered resume ranking system using OpenAI API, streamlining recruitment processes by aligning candidate profiles with job criteria.
- Architected a sophisticated Retrieval-Augmented Generation (RAG) system, enabling dynamic question-answering capabilities across multiple assistants and diverse content sources.
- Led the integration of AI solutions into existing systems, improving operational efficiency and driving technological advancement.

Data Science Intern February 2023 - July 2023

Developed and implemented advanced deep learning models for the meticulous extraction of critical information from identification documents such as ID Cards and passports.

Adria B&T | Casablanca

Data science Intern July 2022 - September 2022

Leveraged computer vision techniques to train machine learning models for automated extraction of vital data from Driver's Licenses and Vehicle Registration Cards.

Performances Qualité- INOGEN Alliance | Casablanca

Software engineering intern August 2021 - September 2021

Developed a desktop application to facilitate audit management processes, including scheduling, progress tracking, report generation, and historical data storage.

SKILLS

- **Programming Languages** : Proficient in Python, SQL, Java and Bash
- **Machine Learning and Deep Learning** : Experienced in regression, classification, decision trees, clustering, boosting, neural networks, NLP and Transformers.
- **Data Analysis and Visualization** : Proficient in using libraries and tools such as pandas, numpy, matplotlib, seaborn, and PowerBI
- **Big Data Tools** : Experience with Hadoop, Spark, Kafka
- **Databases** : Skilled in SQL (MySQL, PostgreSQL), NoSQL (MongoDB, Redis) and Vector Stores
- **ML/DL libraries** : Experience with TensorFlow, PyTorch, Scikit-learn and PaddleNLP
- **Cloud Platforms** : Familiarity with AWS
- **Devops** : Familiar with Git, Docker, Gitlab CI/CD, DVC
- **GenAI** : Experience with OpenAI API, langchain ecosystem and LLMs
- **Other tools** : Experience with Celery, Apache Airflow, MLflow

Engineer specialized in Big Data and Cloud Computing, with strong proficiency in Python, SQL, and Big Data tools such as Hadoop and Spark. Experienced in developing artificial intelligence solutions. Capable of effectively integrating AI into existing systems, optimizing operations, and facilitating data-driven decision-making. Passionate about technological innovation and solving complex problems, committed to continuously improving system performance and delivering data-driven solutions within dynamic and multidisciplinary teams.

CONTACT ME

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Casablanca, Morocco

LANGUAGES

Arabic Native

French Advanced

English Advanced

CERTIFICATIONS

- **MLOps Specialization** by DeepLearning.AI - Coursera (ongoing)
- **Data science curriculum** by Explore AI - ALX
- **Deep Learning Specialization** by DeepLearning.AI - Coursera
- **Machine Learning foundations** - AWS Academy
- **SQL fundamentals** - Datacamp

INTERESTS

- Chess
- Exploring new tech trends
- Sports : football, basketball