MAROUANE ABOUTARA-BELGHITI

Software Engineer | Data Science & Artificial Intelligence



Contact Information

Marouane Aboutara-Belghiti

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Languages

Francais	Upper-Intermediate
Anglais	Upper-Intermediate
Arabic	Native

Technical Skills

- **Programming:** Python, Java, SQL, PL/SQL, JavaScript, R, C/C++
- **Artificial Intelligence & Machine Learning:** Machine Learning, Deep Learning, Generative AI, Large Language Models (LLMs), Predictive Modeling, Time-Series Forecasting, Model Evaluation & Optimization, Scikit-learn, TensorFlow
- **Data Engineering:** ETL (Extract, Transform, Load), Data Pipelines, Data Integration, Data Transformation, Batch Processing, Stream Processing, Data Warehousing, Data Modeling
- **Data Analytics & Business Intelligence:** Business Analysis, Business Intelligence (BI), Data Analysis, Statistical Analysis, Exploratory Data Analysis (EDA), KPI Analysis, Data Visualization, Reporting & Dashboards
- **Data Science & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook
- **Cloud & DevOps:** Oracle Cloud Infrastructure (OCI), Docker, Kubernetes, Git, GitLab
- **Software Engineering:** Object-Oriented Programming (OOP), Algorithms & Data Structures, Microservices, REST APIs, Software Architecture, Web Application Development, Agile Methodologies
- **Oracle & Enterprise Technologies:** Oracle APEX, Oracle Payments Cloud Service, SQL, PL/SQL
- **Collaboration & Project Tools:** Jira, Confluence, Git

Profile

Software Engineer specializing in Data Science and Artificial Intelligence, with experience spanning enterprise software development, cloud-native systems, data engineering, and machine learning. Experienced in developing payment solutions, ETL and data-processing pipelines, microservices, analytical applications, and ML-based solutions. OCI Generative AI Professional certified, with hands-on experience using Python, Oracle technologies, Docker, Kubernetes, and Oracle Cloud Infrastructure. Strong analytical and engineering background with a focus on building scalable, reliable, and data-driven solutions

Education

Engineering Degree in Digital Engineering : Data Science & Artificial Intelligence — **Sep. 2022 – Sep. 2025**
École nationale supérieure d'Arts et Métiers(ENSAM), RABAT

University Diploma in Mathematics and Computer Science (DEUG) — **Sep. 2020 – Jul. 2022**
Honors: Good
Polydisciplinary Faculty of Ouarzazate, Ouarzazate

Baccalaureate in Physical Sciences and Chemistry — **Jul. 2019 – Jul. 2020**
Honors: Good
Sidi Ahmed Bennacer High School, Zagora

Professional Experience

Software Engineer — **Aug. 2025 – Present**
Oracle, Casablanca

- Design and develop enterprise solutions supporting payment services, ETL workflows, stream & batch processing
- Contribute to the deployment, benchmarking, and enhancement of Oracle Payments Cloud Service applications
- Participate in the design and optimization of software and data-processing solutions
- Worked with containerized and cloud-based environments for application development and deployment
- Collaborated using Agile development and software lifecycle management tools

Research Assistant — **Feb. 2025 – Aug. 2025**
Oracle, Casablanca

- Developed an automated transaction reconciliation solution integrated with Oracle Payments Cloud Service using a cloud-native, Python-based microservice architecture
- Designed and implemented an Oracle APEX web application for data analysis and results visualization
- **Technologies:** Python, Docker, Kubernetes, Oracle APEX, Machine Learning libraries, Oracle Cloud Infrastructure (OCI), Jira, GitLab, Confluence, Git

Data Scientist — **Jul. 2024 – Sep. 2024**
INWI, Casablanca

- Evaluated Machine Learning models and interpreted results to support performance optimization
- Applied predictive analytics and Machine Learning techniques to the analysis and optimization of 4G LTE Key Performance Indicators (KPIs)
- **Technologies:** Python, Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib, Seaborn, SQL, Jupyter Notebook, Data Analytics

Software Engineer — **Jul. 2023 – Aug. 2023**
Zagora Province, Zagora

- Designed and developed an HR web application for employee and absence management
- Implemented distinct user roles:Admin, Team, and Employee, with dedicated access privilege
- Managed employee records, absences, and other HR processes
- **Technologies :** Django, Python, Microservice Architecture

Observational Internship — **Jul. 2021 – Sep. 2021**
Multiservices El Ouali SARL

- Assisted with the administration of Cash Plus services, including customer transfers, taxes, and duties

Academic Projects

- **ENSAM Absence Management Application**
- **Time-Series Forecasting Using Machine Learning**
- **Sign Language Recognition Using Machine Learning**
- **Final-Year Project: AI-Based Image Restoration**

Awards & Leadership

Participant in MENA Youth Entrepreneurship Celebration 2024
INJAZ Al-Arab, Dubai, UAE
Represented Morocco and our university at this international event and presented the GloveVoice project

1st Place : National Company Program Competition 2024
INJAZ Al-Maghrib, Morocco

Class Representative
ENSAM Rabat

1st Place : Media Hackathon Orange 2024
Orange Digital Center, Maroc

Professional Certification

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional
Oracle