

Tarik Boulaajoul

CONTACT

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Data & Business Intelligence Engineer

EDUCATION

Degrees

2019: State Engineer Degree in e-Management and Business Intelligence, ENSIAS, Rabat

2015: Preparatory Classes MPSI-MP Option, Ibn Ghazi Center, Rabat

2011: Scientific Baccalaureate - Mathematics Specialization, Charif El Idrissi High School, Tetouan

Training

- Training in Data and Business Intelligence Engineering, preparatory classes MPSI.

SKILLS

Functional Skills

- Business needs analysis, project planning, KPI development.
- Translation of business needs into relevant analytical solutions.
- Team management, coaching, and coordination.
- Writing skills: synthesis, reporting (French, English), documentation and best practices

Technical Skills

- Python, Scala, Java, JavaScript, PHP, C#, SQL, Spark, DAX
- Power BI, Azure Data Factory, AWS Cloud Services, ElasticSearch.
- Database management SQL Server, HANA, MySQL, Azure SQL, Neo4J, Hive.
- Hadoop, Airflow, Docker, Bash, Unix.
- Git (CI/CD) avec SourceTree GitLab.
- Pipeline optimization, Mathematical modeling, Advanced probabilities, Graph theory, Statistics.

LANGUAGES

French: Fluent

English: Fluent

PROFESSIONAL EXPERIENCE

May 2022 Present	Orange Business Services Big Data Analyst
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Project:

- Participating in a strategic data transformation program aimed at strengthening the operational reliability and decision-making performance of an international telecom operator. The project involved industrializing Big Data flows, implementing predictive analytics capabilities, and leveraging data through KPIs aligned with business priorities. The work was done in collaboration with a multidisciplinary team and a functional sponsor representing strategic company priorities.

Team:

- 1 Data Analyst, 1 Program Manager, 1 Power BI Specialist, 1 Tech Lead, and a Functional Sponsor representing high-level business priorities.

Responsibilities:

- Designed and developed distributed data pipelines with Apache Spark, ensuring resilient architecture and scalable Big Data processing capabilities.
- Defined and implemented predictive analytics models to proactively identify and mitigate critical system incidents.
- Designed dynamic dashboards and defined business KPIs to drive real-time performance monitoring and decision-making.
- Collaborated closely with a Functional Sponsor and cross-functional teams to align data solutions with business strategy and priorities.
- Contributed to performance optimization initiatives, reducing data processing times by up to 60% through targeted improvements.

Technical Environment:

Apache Spark, Hive, HDFS, Python, Unix, Power BI, SQL, Git, Bash, Agile/Scrum.

May 2021 April 2022	Grupo Avalon Data Engineer
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Project:

- Integration and consolidation of data from heterogeneous systems into a unified enterprise architecture aimed at enhancing operational analytics and service quality. The project focused on building reliable data pipelines, automating processing workflows, and standardizing data references across the organization.

Team:

- 1 Data Engineer, 1 SAP Functional Analyst, 1 QA Lead, 1 Tech Lead, with regular coordination with a business domain expert in SAP.

Responsibilities:

- Designed and maintained robust ETL pipelines for extracting, transforming, and cleansing complex datasets.
- Extracted high-value data from SQL Server and SAP HANA to support multidimensional analytics and reporting.
- Integrated diverse data streams into a centralized analytical platform, improving data accessibility and consistency.
- Enhanced validation scripts and implemented automated checks to minimize data load errors and improve data quality.
- Contributed to defining data governance standards and produced technical documentation to support long-term scalability.

Technical Environment:

Python, Bash, SQL Server, SAP HANA, SAP Data Services, Unix, Git, Agile/Scrum.

February 2020	NGIS
January 2021	Business Intelligence Analyst

Project:

Delivery of a cloud-native BI environment for an SME specializing in insurance file management. The project aimed to centralize historical data, automate report generation, and equip decision-makers with interactive performance-oriented dashboards.

Team:

1 Full-Stack Developer, 1 BI Analyst.

Responsibilities:

- Conducted in-depth analysis of business needs and translated them into measurable KPIs tailored to various operational functions.
- Designed and deployed automated ETL pipelines using Airflow and Pandas to streamline data preparation.
- Migrated and integrated structured data into a centralized AWS-based data warehouse to enhance analytical accessibility.
- Developed customized Power BI dashboards for different user personas, enabling real-time performance tracking.
- Implemented data governance rules and provided training and support to end users for tool adoption and usage consistency.

Technical Environment:

Airflow, Python, Pandas, Power BI, AWS S3/RDS, SQL, Agile.

Mars 2019
September 2019

TralInvestment
Data Science Intern

Project:

- Development of a real-time fraud detection system designed to analyze suspicious behavioral patterns. The project focused on building a scalable data infrastructure incorporating data mining algorithms and automated ETL workflows for continuous analysis.

Team:

- 2 Engineering Interns, 1 Technical Supervisor, 1 Business Lead, with support from the infrastructure team.

Responsibilities:

- Designed the end-to-end architecture of the fraud detection system, ensuring scalability and modularity.
- Developed ETL workflows and integrated behavioral analysis models into the data pipeline.
- Implemented anomaly detection metrics and risk indicators to proactively flag suspicious activities.
- Authored technical documentation and presented key findings to the project steering committee.

Technical Environment:

Python, Flask, Airflow, Unix/Linux, Git.