

Djeinaba BA

Big Data Engineer | Geo-Data Engineer

Data engineer with a passion for implementing data-driven solutions. Proficient in geo-data management, designing optimal data architectures, with strong experience in processing and analyzing massive datasets, automating processes, and project management. Seeking opportunities in E&P data management and GIS data engineering within the energy industry.

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djeinaba2019.github.io/

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PERSONAL PROJECTS

My portfolio is available in my web site : <https://djeinaba2019.github.io/>

SKILLS

Programming(Python, R , java, SQL, batch)

E&P data management

GIS-data engineering (QGIS, ArcGis)

data engineering, data science

Statistical analysis

Project Management

Data Architecture design and implementation

Machine Learning and Deep Learning Algorithms, NLP

web and Mobile development

WORK EXPERIENCE

Data Management and Statistical analysis

TechnipFMC Subsea France

03/2023 - 08/2023

Paris, France

Development of a data management and analysis system for data generated from flexible composite tube manufacturing process (Internship)

Achievements/Tasks

- Development of a management system: developing a system for managing and analyzing large volumes of data from pipe manufacturing process: data collection , data quality check and reporting, data cleaning and databases implementations tasks.
- Performing data and statistical analysis on the data generated at the end of the manufacturing process.
- Automation tasks : automating the data quality check and the statistical analysis, testing the automation on post manufacturing and deployment into production.

Geo-Data scientist

Geolinks

02/2023 - 03/2023

Paris, France

Correlogram qualification in passive seismic interferometry using Machine Learning algorithms

Achievements/Tasks

- Lead and oversee technical choices and ensure overall client satisfaction about solutions.
- Identify the proper data quality dimensions and their definitions and technical relevance.
- Automate the cross-correlation quality check process according to Completeness, Validity, and Consistency criteria of the signals.
- Clustering of cross-corelation data that meet the defined criteria using Unsupervised Machine Learning algorithms.
- Deliver a user-friendly final product and implement a visualization technique to display the final results. Apply proper project management methods and techniques to ensure the effective and efficient completion of the project

Big Data Engineer Intern

SITA safety Line (Big Data Applied to Aviation)

04/2022 - 09/2022

Paris, France

Continuous improvement of Machine Learning operations and implementation of MLOPS-oriented services (PFE)

Achievements/Tasks

- Conducted a thorough study of the internal data architecture, identified areas of improvement, and proposed a new data architecture that prioritized scalability, resilience, and reproductive capabilities.
- Designed and implemented the new data architecture to improve teams' interoperability and transition from a monolithic to an event-driven architecture.
- Configured and managed Hadoop clusters using Docker to optimize data processing and analysis. Built event-driven micro-services using Kafka and integrated Hadoop with Spark to enable advanced data processing.

WORK EXPERIENCE

IT & Data Engineer Intern

Binor&Associés

05/2021 - 09/2021

Development of a web application for customer's traffic Monitoring

Nouakchott / Mauritania

Achievements/Tasks

- Conducted network logs analysis and built data pipelines using Elasticsearch, logstash, and Filebeat to collect and process large volumes of data.
- Leveraged logstash for data processing, and utilized Advanced QueryDSL with Elasticsearch for data enrichment, data extraction, and other advanced queries.
- Implemented a web application for customer's traffic monitoring using Django, Flask, SQLAlchemy, and React-js to provide an intuitive and user-friendly interface for data analysis and visualization.

EDUCATION

Geo-Data Management for energy Mix

IFP SCHOOL / Paris

09/2022 - 03/2023

Courses

- Techniques for processing exploration and production data in oil & gas industry, Petrel Data management, Methods for processing georeferenced data and geomatics, Data management, Gis data engineering, Information Technology and Services, Project management, ArcGIS, Machine learning applied in the energy field.

Data Engineering (Double Degree engineering)

INSA EUROMED /Morocco

09/2020 - 09/2022

Courses

- Machine Learning, Deep Learning, Implementation of data architectures, Big Data technologies, Project management, Data science and optimization, GIS (Geographic Information System), Image processing, Big Data analytics, cloud computing, advanced statistics.

Computer Science and Network Engineering

Polytechnic of Nouakchott/ Mauritania

09/2018 - 09/2022

Courses

- data modeling, web and mobile development, operational research, project management, data analysis etc..

CERTIFICATES

DAMA CDMP Certification - Practitioner Level(DAMA)

Data integration and Interoperability, data warehousing etc....

DAMA CDMP Certification - Associate (DAMA)

Data Management process, data quality, data governance, Master and Reference Data Management etc..

Apache Spark 3 for Data engineering and analytics with python (UDEMY)

Spark architecture, RDD Crash Course, Structured API Spark Dataframe, spark streaming for analytics, Spark SQL and Databricks

Interpersonal Communication (LinkedIn)

Master your interpersonal communication skills,how to handle interruptions, respond to critical feedback, and communicate across cultures.

Big Data analytics with hadoop and Apache Spark (LinkedIn Learning)

Building Analytics application with Hadoop and Spark

ORGANIZATIONS

Executive member of Mauritanian Engineering Community (MEC) (10/2020 - 08/2023)

Member of the Executive board

Society of Petroleum Engineering (SPE section France) (09/2022 - 08/2023)

Student Member

Executive member of MAPE (Mauritanian Association of Petroleum Engineering) (08/2023)

Member of the executive board