

# Sarah DIOMANDE

M1 – Data Science

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Île-de-France  
\* Open to international opportunities

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Looking for a 5- to 6-month internship in

## DATA SCIENCE, AI and BIG DATA

starting from November 1, 2024

### PROFESSIONAL PROFILE

I am passionate and full of energy. With a strong sense of rigor and teamwork, I have collaborated multiple times on diverse projects in various fields. I am thus ready to embark on an exciting adventure within your company, to take on new challenges and contribute effectively to the success of your projects !

### TRAINING AND QUALIFICATIONS

#### DATA SCIENCE AND AI ENGINEER

EFREI (FRANCE)

Sept. 2023 - June 2026

Second year of Engineering Program – M1

First year of Engineering Program – L3

#### EXCHANGE SEMESTER

AGH University of Science

Jan. 2024 - May 2024

and Technology (POLAND)

#### FRENCH PRE-ENGINEERING CLASSES:

MPSI (MATHEMATICS, PHYSICS)

INP-HB

Sept. 2021 - June 2023

(IVORY COAST)

#### HIGH SCHOOL DEGREE

Scientific High School

July 2021

of Yamoussoukro

(IVORY COAST)

### INTERESTS

- Traveling and discovering unusual places: Zaandam Houses (Netherlands), Man Waterfalls (Ivory Coast), Kopiec Krakusa (Poland)...
- Football team : defensive midfielder

### SKILLS

#### Programming Languages

- Python (4+ years of experience)
- Java
- SQL
- R
- Web programming: PHP, Node.js, Express.js, javascript, HTML, CSS

#### Machine Learning

- Supervised Learning: Linear Regression, KNN, Decision Trees, Random Forests
- Unsupervised Learning: Kmeans, Deep Learning (CNN, RNN, DNN)

#### Data Science Tools

- Tableau
- Power BI
- Scikit-learn
- Apache Spark
- PySpark
- NoSQL
- Advanced Excel

#### Project management

- Git/Github
- MLflow

#### Languages

- FRENCH: Mother tongue
- ENGLISH: Advanced - TOEIC C1
- GERMAN: Elementary - A2

### PROFESSIONAL EXPERIENCE

#### ADMINISTRATIVE ASSISTANT at EFREI

Fixed-term contract (CDD) – Student Affairs Office at EFREI – July & August 2024

- Data management and manipulation using Microsoft Excel
- Processing student requests via email with multi-tool management (Outlook, Teams, Word, Excel)
- Data entry and updating of student information in the UNIT 4 database

#### MULTI-LABEL PATENT CLASSIFICATION

Solution Factory EFREI – July 2024

- Response to a request for proposals from LIPSTIP for the development of an NLP prediction model to classify texts based on multiple CPC labels
- Python, Tensorflow, Keras, MLP, LSTM
- F1-score = 0.85 – 1st place awarded by the jury

#### PERSONAL HEALTH DATA VISUALIZATION PLATFORM

Udacity – April 2024

- Data processing and preparation with PySpark and Apache Spark
- Logistic regression for predicting chronic disease risks
- Deep neural networks (DNN) for anomaly detection in biometric data with 83% accuracy
- Results visualization using Power BI

#### ARCHITECTURE BASED ON RESTFUL APIs

Academic Project AGH - Group of 3 - May 2024

- Development of an e-commerce platform performing all CRUD operations with implementation of state and transaction management
- Back-end and front-end development with MySQL, JavaScript, CSS, Node.js
- Creation and administration of the SQL database with phpMyAdmin
- Compliance with GDPR regulations