

# Alex Hermann SOCKENG KOUSSOK

Data Analyst — Engineer in Applied Mathematics

*Data-driven Engineer in Applied Mathematics skilled in computational tools, mathematical modeling, and advanced analytics. Experienced in data preprocessing, EDA, predictive modeling, and data visualization.*

*Committed to continuous learning and delivering tangible results.*

*Seeking a challenging role to apply expertise in solving complex business problems through data-driven strategies.*

## Education

2020–2021 **Master of philosophy in Mathematical Modeling & Scientific Computing**, National Advanced School of Engineering, Polytechnic, University of Yaounde 1, Yaounde, Cameroon, GPA: 3.15/4

Completed coursework focused on utilizing computational tools for data analysis, algorithm development, and mathematical simulations. Overall, the degree provided a comprehensive understanding of applied mathematics principles and their practical applications, equipping me with the knowledge and skills to tackle complex problems in various industries.

2017–2018 **Bachelor of Science in Mathematics & Computer Science**, Faculty of science, University of Yaounde 1, Yaounde, Cameroon, GPA: 2.15/4.00

Completed coursework focused on Calculus, Linear Algebra, Probability and Statistics, Discrete Mathematics, Algorithms and Data Structures, Computer Programming, and Operating Systems.

## Experience

### Work

2023–Present **Lecturer**, INSTITUT UNIVERSITAIRE MATAMFEN, Yaounde, Cameroon

Instructor in mathematical analysis, numerical methods, statistics, and data analysis for two-year technical students. Equipping students with essential analytical skills for data-driven decision-making and quantitative management.

### Internships

Sept, 2023–Present **Research engineer in BigData & AI development**, BENSEARCH SOLUTIONS SAS, Paris, 30 Rue de la Grande Île Meaux, France (Hybrid)

Led creation of client database for Bensearch Solutions SAS, utilizing advanced data processing techniques and machine learning to extract actionable insights. Strong expertise in SQL server, NoSQL databases, and data-driven decision making.

Jun 2020 - **Data Analyst**, MEGASOFT SARL, Yaounde

Sep 2020 As a data analyst, I led a project where we collected and curated the data to predict the technical and psychological aptitude of candidates following a recruitment test. By identifying key factors influencing the outcomes, we optimized the recruitment process and made informed decisions regarding candidate selection.

## Skills

- Mathematical Modeling
- Data Analysis: preprocessing, EDA, statistical analysis
- Programming: Python, R, MATLAB, Fortran, SQL
- Data visualization
- English (Professional working proficiency)
- Predictive Modeling: machine learning algorithms
- Optimization
- Statistical Analysis
- Communication and Continuous Learning
- French (Native - Fluent)

## GitHub projects

HR Project **Python App for HR**, to predict a candidate's technical skills, psychological aptitude, and job sustainability based on their recruitment test results in conjunction with HR department of MEGASOFT

Article draft **Morpho-syntax labelling Python App**, to detect automatically an Anaphora pronominal adverbial and the antecedent in a German language text in collaboration with a PhD student in computational linguistic.

## Certificates

2023 **IBM Data Analyst Professional Certificate**, Coursera

Sep 1<sup>st</sup>, 2023 **IBM Data Science Professional Certificate**, Coursera

Feb 21, 2023 **Applied Data Science Lab**, WorldQuant University, New Orleans, United States.

Sep 30, 2022 **Artificial Intelligence for Medicine Specialization**, Coursera