

# DORIS C. KENFACK JIOTSA

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## Data Scientist / Data Analyst

Bringing twelve years of research and teaching experience, adept in extracting valuable insights to drive informed decisions. Committed to continuous learning in Data Science and Artificial Intelligence, with a strong background in nuclear physics offering a unique perspective on data analytics. Proficient in machine learning and data analysis tools and methodologies, with competencies in:

- Data Analysis, Data Cleaning, Data Visualization, Model Development, Machine Learning, Deep Learning, Neural Networks, NLP, Statistical and Quantitative Analysis, Experimental Design, Radiation Detection
- Analytical thinking, Problem-solving, Flexibility, Self-motivation, Communication, Collaboration
- Python, C++, SQL, Rasa, Scikit-learn, Numpy, Pandas, Seaborn, Matplotlib, NLTK, CSS, HTML, Jupyter Notebook, Microsoft tools, Azure Data Studio, IBM Cognos & DB2, R
- Bilingual fluency in French and English

## RELEVANT WORK EXPERIENCE

### **Data Scientist (Chatbot)**

Jan 2023 - Mar 2023

*Dreeven Technologies Inc. - Saint-Lambert, QC*

- Worked on a project designed to develop and implement a chatbot to enhance customer support and engagement
- Designed the chatbot interface for a user-friendly and engaging interaction
- Ensured bilingual engagement through French-to-English and English-to-French translation
- Fostered collaboration and teamwork, enhancing productivity and project outcomes

### **Research Assistant (Radiation detector)**

2016 – 2020

*Stellenbosh University / iThemba LABS - South Africa*

- Conducted energy calibration of radiation detectors
- Supervised and assisted students during tutorials and laboratory sessions, facilitating their overall understanding of the subject matter
- Utilized C++, Excel, and Linux for data acquisition and analysis
- Trained others in data analysis techniques, data acquisition, and radiation detectors, contributing to the field of experimental Subatomic Physics

## OTHER WORK EXPERIENCE

### **Online Private Teacher / Tutor**

2021 – Present

*SOSTeacher - Montreal, QC*

- Applied personalized teaching methods to enhance student engagement and conducted continuous assessments to boost student confidence and improve comprehension

### **High School and College Level Teacher**

2011 – 2015

*Ministry of Public Service and Administrative Reform, Cameroon*

*Polytechnique Bambui, Cameroon*

- Instructed students in Physics and Electronics, incorporating interactive methods and hands-on projects, resulting in a 100% pass rate in a national exam
- Enhanced teaching methods and supervised student teachers, producing a cohort of skilled and confident educators

## SELF-LEARNING PROJECTS

### **Machine Learning and NLP Projects**

June 2023

- Developed a Python-based chatbot for Q&A applications, achieving an 85% accuracy rate
- Conducted sentiment analysis on Spotify app reviews and designed machine learning models to detect harmful chemicals in children's food products, contributing to enhanced user experiences and food safety.

### **Exploratory data analysis (EDA) projects**

May - Jul 2023

- Conducted EDA projects, utilizing statistical and mathematical techniques alongside Python and SQL to analyze life expectancy and student enrollment data, resulting in deepened expertise and valuable insights

**More Projects at** <https://doriskj.github.io/>

## EDUCATION AND TRAINING

### **IBM Data Analyst Professional Certificate**

Aug 2023 - Dec 2023

Coursera - Online

### **Ph.D. in Nuclear Physics**

2016 - 2020

Stellenbosch University / iThemba LABS - South Africa

- Employed programming tools, statistical analyses, and analytical techniques, such as linear regression and Gaussian distribution, to extract valuable insights from the data
- Visualized and interpreted complex data, systematically comparing outcomes with simulations and drawing conclusions to inform decisions
- Communicated research findings effectively at international conferences and workshops, addressing audiences of over 150 attendees
- Collaborated with a multidisciplinary team, including radiation, mechanical, and electronics engineers, as well as physicists, to build an experimental setup and conduct research for scientific purposes

### **MSc in Physics and Electronics**

2010-2012

University of Dschang, Cameroon

### **Technical High School Teachers Diploma in Electronics**

2010-2012

Higher Technical Teacher Training College (HTTTC), University of Bamenda, Cameroon

### **BSc in Physics and Electronics**

2006-2009

University of Dschang, Cameroon

## COMMUNITY INVOLVEMENT

### **Coach for the STEMing UP program (Online)**

2022

hEr VOLUTION, Toronto, Canada

- Guided young girls in developing STEM skills, coaching them in solving real-world challenges set by business partners, boosting their confidence and creating pathways to new opportunities.

### **Volunteer**

2021 – Present

Toronto Womxn in Data Science, Toronto, Canada

- Contributed to coordinating data science, data analytics, and AI events and conferences, including the Toronto Womxn in Data Science annual conferences