

# BATBAINA GUIKOURA

Computer Scientist | Data Scientist

A dedicated Computer Scientist and Junior Data Scientist with hands-on experience in machine learning, data analysis, and software development.

📍 Douala, Cameroon

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🐙 GitHub: batbaina

## EDUCATION

- **Master's in Mathematics: Data Science** AIMS Cameroon | Aug 2023 – Present
- **Master's Degree in Computer Engineering** University of Ngaoundéré | Feb 2023
- **Bachelor's in Computer Science and Mathematics** University of Ngaoundéré | Jun 2020

## SKILLS AND AREAS OF COMPETENCE

### Skills

- **Programming Languages:** Python, JavaScript, SQL
- **Libraries:** Pandas, TensorFlow, Scikit-learn
- **Tools:** Mlflow, Snowflake, GitHub, Dagshub, DVC, Kafka, dbt, Streamlit, PowerBI, Docker, Postman, MySQL, Flask, Django, AWS, ODK Tool, SPSS
- **Languages:** French, English, Moussey

### Areas of Competence

- Machine Learning Algorithms
- Data Science and Optimization
- Software Engineering (Apps, Web, APIs)
- Sustainable Agriculture

## RESEARCH EXPERIENCE AND PROJECTS

### Data Scientist | Diool | Jul 2024 – Present

Intern | Douala, Cameroon

- Engaged in user data analysis, examining transaction behaviors and patterns within the system.
- Designed and implemented middleware APIs for secure communication between users and the Diool API.

### Enhancing Plant Disease Detection through Autoencoders | Jun 2024 – Aug 2024

Master's Thesis | AIMS Cameroon

- Developed an Autoencoder-based model specifically designed to detect abnormal plant leaves.
- Evaluated the model by hypothesizing on the quality of the data used.

### Optimizing the Profit Margin in a Crop Rotation System in Agriculture | Jul 2022 – Jan 2023

Master's Thesis | University of Ngaoundéré

- Mathematically model the continuous dynamics of resources under the effect of an agricultural policy.
- Optimizations Technics : Genetics algorithms.

### Software Engineer | Multisoft Academy | Apr 2021 – Jun 2023

Seasonal | Ngaoundéré, Cameroon

- Designed and developed software solutions with robust algorithms and scalable architectures.
- Provided training in data analysis using tools like SPSS, along with Microsoft tools.

### Python Developer | CDTIC | Feb 2019 – Jan 2021

Seasonal | Ngaoundéré, Cameroon

- Developed and maintained scalable, high-performance applications using Python.
- Utilized libraries, frameworks (e.g., Django, Flask), and version control systems (e.g., Git).

## CERTIFICATES

- **Postman API Fundamentals Student Expert** | Postman, Sept 2024
- **Introduction to Machine Learning for Earth Observation** | EO College, Sept 2024
- **Mathematical and Statistical Modeling of Complex Systems** | CIMPA School, Ndjamena 2023

## SCHOLARSHIPS, PRIZES, AND AWARDS

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- Winner, Hackathons Organized by Indaba X Chad | Oct 2024  
(*La detection précoce de pyriculariose du riz au Tchad*)
- Winner, New AIMS Slogan | Mar 2024  
(*In Africa's Youth, the Future of Science*)
- Mastercard Foundation Scholar | AIMS Cameroon, Aug 2023
- Excellence Prize for Chad's Best Baccalaureate Graduates | Aug 2016

## VOLUNTEER EXPERIENCE

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- **Assistance to Orphanage** | Ngaoundéré, Cameroon, 2021
  - Provided assistance to children at an orphanage by providing them some necessities materials.
- **Development of Application for Limbe Municipality** | Limbe, Cameroon, 2023
  - Application and google form aimed at improving public services for the Limbe Municipality.

## HOBBIES

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- **Football** | **Basketball** | **Music**

## REFERENCES

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- **Paulo Canas Rodrigues**, Professor of Statistics and Data Science, Federal University of Bahia, Brazil  
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- **Jean-Louis Ebongue Fendji**, Professor, University of Ngaoundéré, Cameroon  
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