|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Yacouba OUEDRAOGO**  C:\Users\STUDENT\Desktop\yac\Ancien-PC\DOSIER_New_PC\Formation_R\CV_Avec_R\CV_Avec_R\photo.jpg  **Data Scientist**  **CONTACT**   |  |  | | --- | --- | | [Envelope](mailto:seknewna@gmail.com) | Yacouba.ouedraogo@aims-senegal.org | | Telephone | +221772867111 | |  | [Linkedin](https://www.linkedin.com/in/yacouba-ouedraogo-926613204/) | [GitHub](https://github.com/wamanagba) |   **LANGUAGES**   |  |  | | --- | --- | | **French:** | Current | | **English:** | Intermediate |   **COMPUTER SKILLS**   * Climate modeling * Package offices * Power Apps * Hadoop * Cloud Computing * Programmation: python, R, matlab,SQL * The Tableau software. * Power BI Desktop * Latex * Machine Learning   **DOCUMENTS & PUBLICATIONS**   1. Somda, Serge & Ouedraogo, Yacouba & Dabone, Eric & Leconte, Eve & Filleron, Thomas. (2021). ASSESSING THE SENSITIVITY OF THE KAPLAN-MEIER CONFIDENCE INTERVAL ACCORDING TO THE MEDIAN FOLLOW-UP. JP Journal of Biostatistics. 18. 67-85. 2. **Master's thesis in Mathematics**: «*Sensitivity analysis of the Kaplan Meier confidence interval with respect to the median of follow-up*»   We have proposed a clear and objective decision rule in the case of cohort studies for decision making in the case of heavy censoring.   1. **Master's thesis in Big Data**: Crop yield predictions from machine learning methods. Anticipating yield anomalies and proposing adapted solutions to actors or decision makers in the agricultural world   **Center of Interest**   * Process automation * Application development * Cloud Computing * Business intelligence * Epidemiology * Climate Science * Machine Learning et Data Science   **Awards**   * Master Scholarship of *AIMS Senegal* * WANECAM Project Scholarship | **PROFILE**  Currently at the Red Cross Red Crescent Climate Centre, I am working on “forecast-based financing (fbf) on the Sahel”.  I have also worked as a data analyst and biostatistician on projects at INSTech, and collaborated with the IRSS research team for data collection. I have acquired strong skills in the analysis and management of climate and epidemiological data  **EDUCATION**   |  |  | | --- | --- | | 2021 | **AIMS – SENEGAL,** [**(center of excellence in Africa)**](https://nexteinstein.org/)  Master in Mathematical Sciences: Big Data and Artificial Intelligence | | 2019 | **Université Nazi Boni, Burkina Faso.**  Master of Applied Mathematics: Modeling and Scientific Computing | | 2014 | **Université Nazi Boni**  Two-year university degree in Mathématiques- Physique- Informatique |   **PROFESSIONAL EXPERIENCES**   |  |  | | --- | --- | | Oct 2021 - Now | ***JUNIOR RESEACHER* at Red Cross Red crescent Climate Centre (Nederland) (**[**link**](https://www.climatecentre.org/about-us/)**)**   * Forecast-based financing (fbf) on the Sahel * Collection of data on natural disasters (Floods, Droughts, heat waves, dust) on the Sahel countries. * assessing the impact of climate hazards on sahelian countries * Collection and processing of meteorological data | | Nov 2020 – sept 2021 | ***DATA SCIENTIST* at AIMS-Senegal (Senegal)** [**(link)**](https://aims-senegal.org/)   * Prediction of crop yields with climate variables using machine Learning * Collection and processing of meteorological data * Study of the climatology of West African countries using rainfall data. * Statistical analysis using climate variables (Data Mining) * Detection of credit card fraud in a bank using machine learning. * Prediction of energy consumption in time series using Deep Learning. * Detection of potholes on roads using Machine Learning methods | | Janv - Octobre 2020 | ***DATA ANALYST*** at the **Institut des Sciences et Techniques de Bobo-Dioulasso (Burkina Faso)** [**(INSTech)**](http://instech-bobo.bf/)**.**   * Analysis of statistical data for the [WANECAM](http://www.wanecam.org/fr) project. * Writing of statistical analysis reports. | | Janv - Octobre 2020 | ***DATA ANALYST*** at the **Institut de Recherches des sciences de la Santé** [**(IRRS, Burkina).**](http://irss.bf/)   * Data collection for statistical purposes | | Jan 2019– Dec 2019 | ***INTERNSHIP*** at the **Centre Muraz (**[**Institute of Public Health Research**](https://www.centre-muraz.bf/)**) (Burkina Faso)**   * Proposal of a decision rule to judge the quality of follow-up in cohort studies. * Writing of scientific articles and analysis reports. * Training and statistical analysis. | | 19 - 21 Dec 2019 | **Université Joseph KI -ZERBO (Burkina Faso)**   * Oral Communication at the 1st Burkinabe [Congress of Public Health.](http://www.insp.gov.bf/1er-congres-de-sante-publique/) | | Oct 2018 – Jun 2020 | **High school mathematics teacher (Burkina Faso** |   **CERTIFICATIONS**   |  |  | | --- | --- | | 2021 | **Coursera**   * Google Cloud Platform Big Data and Machine Learning Fundamentals (Google Cloud course) * Spatial Data Science and Applications (YONSEI University Course) * Introduction to cloud computing (IBM Course)   **AGROCAMPUS OUEST (France)**   * Multidimensional data analysis | | 2020 | **Unicef**   * Results-based management | |  | **Banque** **Interamericaine** **de** **Developpement**   * Management of development projects | |  | **Udemy**   * Deep Learning with TensorFlow 2 * Deep Learning from A to Z * Data sciences from A to Z * Complete Microsoft PowerApps Training * The Complete Guide to Hadoop 2021: Mastering Big Data * Web Scraping and APIs Scraping with Python |   **SKILLS:**   * Machine Learning algorithms for data sciences. * Machine Learning/Deep Learning. * Data visualization (Power Bi Desktop, Tableau, Python, R). * Natural Language Processing with Deep Learning in Python. * Solid coding skills (Python, R). * Experience with Office applications. * knowledge of scientific data formats netCDF. * Writing of statistical analysis reports and scientific articles. * Creation of reports to present results on Beamer (Latex) and PowerPoint. * Development of questionnaires (KoBoToolbox, Power Apps). * Deploying a predictive machine learning model/Classification using the Cloud. * Scrape data from the net with the Python language. * Mastery of survival analysis methods (longitudinal study). * Statistical analysis, statistical modeling and numerical simulations.   **REFERENCES**   |  |  |  | | --- | --- | --- | | **Pr Boureiman SANGARE.** Head of Department of Mathematics and Computer Science of Universite Nazi Boni  **Email:** [**mazou1979@yahoo.fr**](mailto:mazou1979@yahoo.fr)  **Tel: +226 78 33 11 14** | **Guigma Kiswendsida, PhD**  University of Sussex/  Red Cross Red Crescent Climate Centre  **Email:** [**guigma@climatecentre.org**](mailto:guigma@climatecentre.org)  **Tel: +226 71556191** | **M. A. Serge SOMDA, PhD**  Teaching Assistant  in Applied Mathematics:  Biostatistician.  01 BP 1091 Bobo-Dioulasso,  Burkina Faso  E-mail: [manituo@gmail.com](mailto:manituo@gmail.com)  **Tel : +226 70 44 33 22** |       Yacouba Ouedraogo |  |  |