

Joel-Cedric Beugre

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<https://jbeugre1.github.io/Portfolio/Introduction>

Education

PhD in Computer Science Indiana University, Indianapolis	December 2028
Master of Applied Data Science Indiana University, Indianapolis	December 2022 GPA: 3.84/4.00
Bachelor of Science in Computer Science Georgia State University, Atlanta, GA	December 2020 GPA: 3.68/4.30

Technical Skill

Programming languages: Python, Java, JavaScript, HTML, CSS, Spark, R, SAS

Databases: MySQL, SQL Server, MongoDB, AWS, Azure, JSON

Data science Tools: Pandas, NumPy, Scikit-learn, Matplotlib, Tableau, TensorFlow, Keras, Pytorch, Power BI, MS Excel

Technology Big data: Hadoop, Spark, ETL, Talend

Natural language: English (bilingual level), French (mother tongue)

Professional experience

Data Scientist | *Orange Cote d'Ivoire* *June 2025 – August 2025*

- Developed an AI-driven inspection system using YOLO to detect objects in thermal drone images and extract their temperature readings. Implemented a temperature-based analysis pipeline to identify overheated or abnormal equipment, enhancing maintenance efficiency and preventing system failures.
- Developed a forecasting system leveraging time-series modeling (including external regressors) to predict company revenue (CA) with high accuracy. Engineered an end-to-end ETL pipeline, executed feature engineering on marketing, seasonal and holiday data, and delivered dashboards for decision-makers to monitor forecast performance and deviations.

Data Scientist Intern | *Orange Cote d'Ivoire* *January 2024 – August 2024*

- Contributed to the Homologation project, which involved classifying ID card images and flagging invalid or non-ID uploads using image recognition techniques to enhance document validation workflows.
- Participated in developing a Retrieval-Augmented Generation (RAG) LLM-based assistant to support HR operations by connecting a curated knowledge base with AI, improving internal information access.
- Collaborated on a Facebook data scraping project to identify and classify toxic or negative comments, with a focus on detecting slang and emotional tone using NLP models.
- Executed ETL processes to ensure seamless data flow and integrity, optimizing data management efficiency.
- Built data marts to support analytical use cases and decision-making through structured and accessible data.
- Explored AutoML workflows using tools like Katib to streamline hyperparameter tuning and model selection.

Programmer Analyst Intern | *Nouvelle PSP CI* *January 2023 - April 2023*

- Acquired proficiency in tools such as Power Automate, Power Apps, and Windev, enhancing workflow automation and application development capabilities within pharmaceutical management systems.
- Gained insight into pharmacy operations, particularly in stock management and distribution, through active participation in inventory processes and data collection initiatives.
- Utilized learned skills to streamline inventory management procedures, improving efficiency and accuracy in stock tracking and replenishment.

Graduate Teaching Assistant | *Indiana University – Purdue University* *September 2021 – December 2022*

- Provided one-on-one and group support to undergraduate students in data science courses, facilitating a deeper understanding of complex concepts.
- Assisted students with problem-solving and homework completion, enhancing their learning experience.
- Evaluated and graded assignments, projects, and exams, delivering timely and constructive feedback.
- Contributed to the development of educational materials, including code samples, datasets, and software tools.