

Jean-Emmanuel Kouadio

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DATA SCIENTIST

Impact-driven Data Scientist skilled in building predictive models (**97%+ accuracy**), deep learning applications, and analytics workflows that **cut processing time by 50%**. Proficient in Python, SQL, Tableau, with expertise in NLP, statistical testing, and HR analytics. Thrive at automating data pipelines, optimization, and translating complex data into strategic decisions.

Core Skills: Machine Learning | Deep Learning | NLP | Predictive Modeling | Python | SQL | Oracle (FDI/HCM/OTBI) | Tableau

PROFESSIONAL EXPERIENCE

Data Scientist Intern

Jun. 2024 - Feb. 2025

Abt Global, Inc. | Rockville, MD

A consulting firm in the public sector, specializing in data-driven solutions for health, social, and environmental challenges.

- Developed a gender pay gap detection app using Python, Streamlit, and Scikit-learn; **achieved 85% model accuracy** and directly influenced HR compensation policy.
- Automated end-to-end data pipelines for preprocessing, modeling, and visualization, cutting analysis time by **50%**.
- Engineered ETL workflows using SQL and Oracle FDI; **resolved 50+ data quality issues** and boosted HR data reliability.
- Developed interactive dashboards in Tableau and Oracle Analytics Cloud, **improving HR reporting speed by 30%**.
- Applied statistical tests and feature importance methods to uncover workforce trends and equity insights.
- Validated **100+ Oracle HCM Cloud data fields**, improving analytics accuracy by **20%**.
- Presented models and dashboards to **30+ stakeholders**; **achieved 90% adoption** in the first month.
- Contributed to **5+** Agile sprint cycles, collaborating with HR and engineering teams.

Sales Operations Analyst

Jun. 2022 - Jun. 2024

SU Wellness Center | Shepherdstown, WV

A university-affiliated fitness/wellness facility focused on promoting health and student engagement in higher education.

- Performed churn and retention analysis using SQL and Excel, **increasing membership renewals by 10%**.
- Developed KPIs and built dashboards to inform customer retention strategies.

Research Analyst

Dec. 2018 - Jul. 2021

Shepherd University | Shepherdstown, WV

A public university conducting academic and applied research across engineering and health sciences.

- Built predictive models on metastatic lung cancer datasets; supported treatment methods with **15% increased effectiveness**.
- Communicated findings through presentations, enhancing cross-functional decisions.

PROJECTS

Fake News Detector | Python, TensorFlow, Keras, NLP, NLTK, Scikit-learn

Mar. 2025 - Apr. 2025

- Developed an LSTM-based text classification model achieving **99% accuracy** on **40,000+** news articles through advanced preprocessing, sequence modeling, and regularization to support misinformation detection efforts.

Page Engagement A/B Testing | Python, SciPy, A/B Testing, Statistical Analysis

Nov. 2023 - Dec. 2023

- Led an A/B testing analysis on **36 user sessions** comparing two landing pages, revealing a **28.6%** higher engagement on Page B (1.62 vs. 1.26 mins) using Welch's t-test, bootstrapping, and effect size (Cohen's d = 0.38).

Regressly | Python, Streamlit, Scikit-learn

Sep. 2024 - Jan. 2025

- Built an interactive regression analysis application using Python and Streamlit, automating data processing, model selection (**5 algorithms**), and visualization to generate actionable insights with a **0.94 R² score**.

EDUCATION

Shepherd University – Shepherdstown, WV

M.S. Data Analytics and Information Systems | Jan. 2022 - Dec. 2024

B.S. Computer Engineering | Aug. 2017 - Dec. 2021

SKILLS

Languages: Python, SQL, Java, HTML/CSS/JavaScript

Libraries & Tools: Scikit-learn, TensorFlow, Keras, Pandas, NumPy, NLTK, BERT, Scipy, Matplotlib, Seaborn

Data Science & Analytics: Machine Learning, Deep Learning, Predictive Modeling, Natural Language Processing (NLP), Statistical Analysis (A/B Testing, Hypothesis Testing, Bootstrapping, Confidence Intervals), Data Mining, Optimization, Exploratory Data Analysis (EDA), Data Processing, Automation, Data Modeling, Reporting

Data Visualization & BI Tools: Tableau, Power BI, Oracle Analytics Cloud, OTBI

Cloud & Big Data: AWS EC2, Apache Spark, Oracle Cloud, Oracle Fusion Data Intelligence (FDI)

Databases & ETL: Oracle FDI, Oracle HCM Cloud, SQL-based ETL Pipelines

Platforms: Streamlit, Jupyter Notebook, Google Colab, Git

Certifications: Google Data Analytics (Coursera), Machine Learning Specialization (Coursera)