

Jean-Emmanuel Kouadio

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EDUCATION

Shepherd University <i>Master of Science in Data Analytics and Information Systems</i>	Shepherdstown, WV 01/2022 - 12/2024
Shepherd University <i>Master of Business Administration (MBA)</i>	Shepherdstown, WV 01/2022 - 12/2024
Shepherd University <i>Bachelor of Science in Computer Engineering</i>	Shepherdstown, WV 08/2017 - 12/2021

EXPERIENCE

Data Science Intern <i>Shepherd University</i>	05/2024 - Present <i>Shepherdstown, WV</i>
<ul style="list-style-type: none">Led the development of a predictive analytics project focused on student retention, utilizing a comprehensive dataset of over 4000 student profiles to identify and analyze key predictors of academic success and dropout risks.Engineered and refined advanced machine learning models using Python and Scikit-learn, achieving a potential 20% improvement in prediction accuracy, thereby enhancing decision-making processes for student support services.Utilized Tableau to create insightful, interactive dashboards and visualizations that help communicate complex data findings to university stakeholders, facilitating data-driven decision-making.Built a Flask-based tool for real-time predictive insights, enhancing intervention strategies for academic staff.	
Sales Manager <i>Shepherd University Wellness Center</i>	06/2022 - Present <i>Shepherdstown, WV</i>
<ul style="list-style-type: none">Implemented data-driven strategies that significantly enhanced customer retention and satisfaction, leading to a 10% increase in overall business performance.Collaborated with cross-functional teams to define business requirements, developing targeted, data-driven marketing strategies based on sophisticated statistical techniques that increased sales by 15%.	
Research Assistant <i>West Virginia INBRE</i>	12/2018 - 07/2021 <i>Shepherdstown, WV</i>
<ul style="list-style-type: none">Conducted in-depth statistical analysis and predictive modeling on metastatic lung cancer research, contributing to treatment methodologies that increased effectiveness by 15%.Collaborated in an Agile environment, enhancing team understanding and decision-making through effective presentations and data-driven discussions.	

PROJECTS

SMS Spam Detector <i>Python, Pandas, Scikit-learn, NLTK, Seaborn, Matplotlib</i>	11/2023 - 12/2023
<ul style="list-style-type: none">Developed an NLP-based SMS spam detection model using Python, Scikit-learn, and NLTK, achieving a high accuracy of 97.87% and employed the Naive Bayes algorithm to classify messages effectively.Leveraged Pandas for data manipulation and applied TF-IDF vectorization, along with rigorous hyperparameter tuning, to enhance the model's precision.Employed confusion matrices, visualized using Seaborn and Matplotlib, to validate the model's effectiveness in improving spam identification.	
Facial Emotion Detector <i>Python, TensorFlow/Keras, OpenCV, Matplotlib, Seaborn</i>	10/2023 - 11/2023
<ul style="list-style-type: none">Engineered a TensorFlow/Keras-based CNN to precisely identify and categorize facial emotions.Utilized OpenCV for real-time image processing, including face detection and preprocessing, to enhance model input quality.Orchestrated comprehensive performance assessments utilizing advanced metrics to optimize the model; achieved unparalleled accuracy and reliability across diverse datasets, resulting in a 20% increase in predictive capabilities.Created visual representations of model predictions using Matplotlib to analyze the detection results effectively.	

TECHNICAL SKILLS AND INTERESTS

Programming Languages: Python, SQL (MySQL), JavaScript, HTML/CSS, R

Data Science Skills: Data Analysis, Data Visualization, Predictive Modeling, Data Cleaning, Data Processing

AI Expertise: Machine Learning, Deep Learning, Natural Language Processing, Computer Vision

Technologies/Tools: GitHub, Tableau, TensorFlow, PyTorch, Scikit-Learn, NLTK, Flask, NumPy, Pandas, Matplotlib, Seaborn, Jupyter, VS Code, OpenCV, AWS EC2, Git, Joblib

Relevant Coursework: Database Management System, Big Data Analysis, Human Resource Management, HR Operations, Employee Relations, Business Intelligence

Areas of Interest: HR Data Science, HR Data Analytics, Ad Hoc Analysis, Equity

Soft Skills: Problem Solving, Presentation, Communication

CERTIFICATES

Machine Learning Specialization – Coursera

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Google Data Analytics Specialization – Coursera

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