Jean-Emmanuel Kouadio

Data Scientist Intern
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Professional Summary

Data Scientist and Master of Science candidate in Data Analytics with 1.5+ years of experience in Python, R, and SQL. Skilled in Machine Learning, Deep Learning, NLP, Data Analysis and Data Visualization. Eager to apply my deep learning and machine learning expertise in a dynamic professional setting.

Skills

Programming: Python, R, SQL, JavaScript, HTML
Libraries and Tools: Pandas, NumPy, NLTK, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyPDF2, FLASK, Sentence Transformers (BERT), Jupyter
Areas of Expertise: Regression, Classification, Clustering, NLP, CNN, ANN, Data Visualization, OpenCV, Predictive Modeling, A/B Testing, Statistics, Data Mining, Data Processing, Data Analysis
Interpersonal Skills: Team Collaboration, Problem-Solving, Communication, Research

Education

Shepherd University - Shepherdstown, WV
Master of Science in Data Analytics and Information Systems — Jan 2022 - Dec 2024

Shepherd University - Shepherdstown, WV
Bachelor of Science in Computer Engineering — Aug 2017 - Dec 2021

Experience

Sales Manager, SU Wellness Center – Shepherdstown, WV — 2022 – Present
- Implement data-driven sales strategies, boosting department sales by 15%.
- Collaborate with the sales team to optimize inventory using predictive analytics

Research Assistant, West Virginia INBRE – Shepherdstown, WV — 2018 – 2021
- Orchestrated impulsive ODE model analysis for metastatic lung cancer research, enhancing treatment prediction accuracy by 30%.
- Executed comprehensive data analyses to derive key insights for immunotherapy and radiation therapy.
- Presented findings at WVAS conferences to an audience of over 200 professionals and non-technical people.

Projects

Resume MatchMate — Github
- Developed an AI application for resume-job matching with 98% accuracy, leveraging Flask, BERT, and PyPDF2.
- Innovated a segment-based text processing to handle BERT's token limits, ensuring complete document analysis.
- Integrated cosine similarity for precise alignment scoring, combined with a streamlined user interface for real-time results.

Advanced SMS Spam Filter — Github
- Engineered an NLP model to classify SMS with 97% accuracy.
- Boosted the model accuracy to 98% through hyperparameter tuning.

Facial Emotion Recognition System — Github
- Developed a CNN model to accurately understand human emotions for digital marketing and mental health.
- Improved the model accuracy from 65% to 87% by hyperparameter tuning.

Cancer Diagnosis App — GitHub
- Developed a machine learning tool for cancer diagnosis with 97% accuracy, simplifying physician workflow.
- Built a web application using Flask to provide a user-friendly interface for making predictions.