Jean-Emmanuel Kouadio

Data Scientist Intern

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Shepherdstown, WV | 681-283-0298

Education

Shepherd University – MS in Data Analytics & Information Systems — Aug 2022 - Dec 2024

Shepherd University – BS in Computer Engineering — Aug 2017 - Dec 2021

Skills

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

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.