Jean-Emmanuel Kouadio

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PROFESSIONAL SUMMARY

Aspiring data scientist and current graduate student pursuing a Master of Science in Data Analytics and Information Systems. Proficient in using Python, Scikit-learn, and TensorFlow to analyze and model complex datasets. Demonstrated ability to work on diverse data science projects, showcasing analytical acumen and problem-solving capabilities. Eager to apply academic knowledge and hands-on experience to excel in a data scientist role and contribute to data-driven insights and innovations.

EDUCATION

Shepherd University Jan 2022 - Dec 2024 (Expected)
Master of Science in Data Analytics & Information Systems *Shepherdstown, WV*

- *Relevant courses: Statistical Analysis, Machine Learning in Data mining, Database Management Systems*

Shepherd University Aug 2017 – Dec 2021
Bachelor of Science in Computer Engineering

WORK EXPERIENCE

Shepherd University Wellness Center Sep 2022 - Present
Flex Manager *Shepherdstown, WV*

- Managing a team of 3 employees and overseeing daily facility operations such as making sure the building is ready for the day meaning that all staff are present and all equipment are cleaned and functional and services are provided
- Ensure efficient completion of all tasks, maximizing productivity and minimizing downtime to provide exceptional customer service to 2800 members.

West Virginia INBRE Jan 2019 - Jul 2021
Research Assistant *Shepherdstown, WV*

- Conducted cancer research under Dr. Qing Wang's supervision to develop a better understanding of the mechanisms that drive tumor growth, leading to potential breakthroughs in cancer therapy.
- Analyzed tumor growth mathematically concerning cancer therapy, enabling the identification of novel therapeutic targets and optimizing treatment efficacy.
- Presented findings at scientific conferences to disseminate research findings and establish a reputation as a subject matter expert in cancer research.

PROJECTS

Intel Image Classifier Using CNN (Github) June 2023 – July 2023

- Developed an image classification system using Convolutional Neural Networks (CNN) to categorize images into six classes: mountain, street, glacier, buildings, sea, and forest.
- Trained the model on a dataset of 25,000 150x150 images, achieving an 80% accuracy.
- Built the CNN model with two convolutional layers, MaxPooling, and dense layers with dropout to prevent overfitting.
- Compiled the model with the Adam optimizer and sparse categorical cross-entropy loss.
- Monitored training progress through accuracy and loss plots.
- Evaluated model performance on validation and test sets, calculating accuracy.
- Visualized the confusion matrix to assess classification performance per category.

Cancer Diagnosis Web Application (Github) Jan 2023 – May 2023

- Developed a cancer-type detection model that uses machine learning algorithms to classify cancer as malignant or benign based on input features.
- Trained and optimized the model using a dataset with over 500 rows and 30 features, achieving an accuracy of 97%
- Built a web application using Flask to provide a user-friendly interface for making predictions.
- Implemented HTML and CSS to design a clean and professional-looking website for the application.
- Deployed the application on a local server and tested it thoroughly to ensure it was error-free and efficient.
- Deployed the tested application using AWS EC2.

Data Visualization Dashboards (Tableau) Jan 2023 – Mar 2023

- Built interactive Tableau dashboards to display business metrics, providing real-time access to critical performance indicators, such as sales figures, revenue growth, and customer engagement metrics and Communicated insights through data storytelling to technical and non-technical audiences on Tableau public.

SKILLS

Hard Skills: Data Analysis, Reporting, Modeling, Data Processing, Data Visualization, Machine Learning, Deep Learning
Tools: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, Git, Tableau, Excel
Techniques: Convolution Neural Network (CNN), Artificial Neural Network (ANN), Regression, Classification
Programming Languages: Python, R, SQL
Soft Skills: Communication, Teamwork, Problem Solving, Critical Thinking, Time Management