SOPHY JEPTOO

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MACHINE LEARNING ENGINEER, COMPUTER SCIENTIST

Results-driven Machine Learning Engineer with a proven track record in developing and deploying machine learning models, Python programming, and leveraging AWS cloud services for scalable solutions. Skilled in designing innovative AI-driven systems. Passionate about applying emerging technologies to solve real-world challenges. Strong communicator with a commitment to continuous learning and the practical application of cutting-edge machine learning techniques.

EDUCATION

Kirinyaga University
Bachelor of Science in Computer Science

Udacity
AWS Machine Learning Fundamentals

Alx Africa
Software Engineering

SKILLS

- Programming Languages: Python, C++
- Web Development: HTML, CSS, JavaScript
- Libraries: TensorFlow, PyTorch, Scikit-learn
- Database Technologies: SQL, MySQL
- Cloud Services: AWS (SageMaker, AWS Machine Learning)
- Machine Learning: Model Building, Training, and Deployment
- Problem-Solving and Analytical Thinking
- Strong Communication and Collaboration Skills

WORK EXPERIENCE

ICT Intern
National Cereals & Produce Board (NCPB)

- Built and configured computer systems, developed software applications, and resolved hardware and software issues.
- Identified and resolved a networking issue that improved system performance.

PROJECTS

Landmark Classification & Tagging for Social Media

- In this project, I developed a landmark classifier using Convolutional Neural Networks (CNNs) to enhance photo sharing and storage services by automatically tagging and organizing images based on inferred location data.

- I employed data preprocessing techniques, trained CNN models with transfer learning, and fine-tuned hyperparameters to achieve optimal accuracy.

- The project culminated in deploying an app that integrates the trained model, enabling automated landmark detection for user-uploaded photos.

Predict Bike Sharing Demand with AutoGluon

- In this project, I leveraged the AutoGluon library to train multiple models for the Kaggle Bike Sharing Demand competition, using Tabular Prediction to forecast bike-sharing demand.

- The project involved model training, optimization, and performance evaluation, demonstrating proficiency in utilizing AutoGluon for automated machine learning and iterative model improvement.

ImageClassifier

- In this project, I developed an AI application that trains an image classifier to recognize different species of flowers using a deep learning model.

- The classifier was trained on a dataset of flower categories, with the goal of integrating it into an app that can identify flowers based on camera input.

- The project involved image preprocessing, training the classifier, and using the trained model to predict the content of new images, showcasing the potential of AI in everyday applications.

CERTIFICATIONS

- Fundamentals to Become a Machine Learning Engineer

- AWS Machine Learning Foundations

- Machine Learning with Python Foundations