

Keith Machina

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SUMMARY

Data Scientist with 3 years of experience, specializing in Python, cloud computing, and deep learning. Proven track record in developing and deployment of Machine Learning and Deep Learning solutions.

WORK EXPERIENCE

Advanced Tele Robotics

Researcher

Jan 2023 - Present

- Developed computer vision models such as YOLO and FasterRCNN to improve robotic perception and decision-making, resulting in enhanced operational efficiency.
- Created and implemented solutions utilizing the Robotic Operating System (ROS) and Generative AI for improved robotics functionality.
- Conducted research in artificial intelligence and robotics to foster innovation and advance technological capabilities.

Artificial Intelligence Center of Excellence

Data Scientist

Apr 2022 - Aug 2022

- Improved predictive model efficacy by implementing advanced feature engineering and hyper-parameter optimization techniques of Machine Learning and deep Learning models such as TensorFlow.
- Transitioned refined machine learning models into operational use, leveraging web and cloud technologies for deployment.
- Applied natural language processing (NLP) methodologies such as Text Pre-processing and Text Classification to analyze and process textual data effectively.

Dukaree Innovation Limited

Data Scientist

Aug 2020 - Jan 2022

- Conducted comprehensive analysis and interpretation of multifaceted datasets using PowerBI, Tableau, and Kool Reports, extracting pertinent information from MySQL databases.
- Developed a machine learning recommendation engine employing item-based collaborative filtering, which improved sales conversion rates and user experience.
- Applied Latent Semantic Indexing (LSI) and data clustering methodologies to refine conceptual search capabilities and facilitate accurate entity extraction.

EDUCATION

Kent State University

Masters of Science, Artificial Intelligence

Jomo Kenyatta University of Agriculture and Technology

Bachelor of Science, Information Technology

SKILLS

Programming Languages: Python, R, C++ • Cloud Tools: Hadoop, Hive, Spark • Exploratory Data Analysis • Natural Language Processing (NLP): Latent Semantic Indexing (LSI), Latent Dirichlet Allocation (LDA) • Data Processing: Pandas, NumPy, SQL • Data Mining: Decision Trees, Regression, Naive Bayes, PCA, Boosting, Matrix Factorization • Machine Learning: TensorFlow, PyTorch, Sci-Kit-Learn, Model Evaluation: Confusion Matrix Etc. • Deep Learning: Neural Networks, CNNs, RNNs, LSTMs • System Design and Analysis • Data Analysis and Visualization: PowerBI, Tableau, QlikSense • Data Processing • Data Analysis • SQL

