Nyikwagh Victor
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PROFESSIONAL SUMMARY

Results-driven AI Engineer with expertise in designing, developing, and deploying AI-driven solutions. Skilled in building and optimizing machine learning models, deep learning architectures, and automation frameworks. Experienced in cloud-based AI services and data-driven decision-making. Passionate about leveraging AI technologies to solve complex challenges and improve business outcomes. Strong background in DevOps, MLOps, and cloud infrastructure management.

TECHNICAL SKILLS

Programming & Scripting: Python, TensorFlow, PyTorch, Scikit-Learn, Bash, Go
Machine Learning & AI: Supervised & Unsupervised Learning, NLP, Computer Vision, Model Optimization
Deep Learning: Neural Networks, CNNs, RNNs, LSTMs, GANs
Cloud Platforms: AWS (SageMaker, EC2, Lambda, EKS), Google Cloud (Vertex AI, GKE), Azure (ML Studio, AKS)
Data Engineering: SQL, Pandas, Spark, ETL Pipelines, Kafka
MLOps & Deployment: Docker, Kubernetes, TensorFlow Serving, FastAPI, Flask, MLflow
CI/CD & Automation: GitHub Actions, Jenkins, Airflow, ArgoCD, Terraform, Ansible
Monitoring & Logging: Prometheus, Grafana, ELK Stack, Datadog
Version Control: Git, GitHub, GitLab, Bitbucket
Operating Systems: Linux (Ubuntu, CentOS), Windows

PROFESSIONAL EXPERIENCE

Harrow MS | AI Engineer
October 2023 – Present

- Designed and deployed end-to-end machine learning pipelines for predictive analytics.
- Developed deep learning models for image classification and natural language processing applications.
- Implemented MLOps workflows using Kubernetes, Docker, and CI/CD pipelines for seamless deployment.
- Optimized AI models using techniques like quantization and pruning, improving inference speed by 40%.
- Leveraged cloud AI services to build scalable solutions, reducing operational costs by 30%.
- Integrated real-time monitoring and logging systems for model performance tracking.

TechNova Solutions | DevOps Engineer
April 2022 – September 2023

- Designed and implemented CI/CD pipelines using Jenkins and GitHub Actions for automated deployments.
- Deployed containerized applications using Kubernetes and Docker, reducing deployment time by 50%.
- Managed infrastructure as code using Terraform and Ansible for cloud provisioning and automation.
- Monitored and optimized cloud infrastructure with Prometheus and Grafana to improve system reliability.
- Implemented security best practices for cloud deployments, reducing vulnerabilities by 35%.
- Automated log aggregation and analysis using ELK Stack, enhancing troubleshooting efficiency.

PROJECTS

Automated AI Model Deployment
March 2023 – August 2023

- Developed an automated ML pipeline using Airflow for data ingestion, preprocessing, training, and deployment.
- Deployed models with TensorFlow Serving and FastAPI, reducing inference latency by 50%.
- Integrated model monitoring dashboards using Grafana and Prometheus for real-time analytics.

Computer Vision for Object Detection
September 2022 – February 2023

- Designed and trained a YOLO-based object detection model for industrial automation.
- Used TensorFlow and OpenCV to process and analyze real-time image data.
- Optimized model performance by using transfer learning and hyperparameter tuning.

Kubernetes-Based ML Deployment
June 2023 – November 2023

- Deployed scalable ML models on Kubernetes using TensorFlow Serving and FastAPI.
- Implemented Helm charts to standardize and simplify Kubernetes deployments.
- Integrated real-time model monitoring using Prometheus and Grafana.

Cloud Infrastructure Automation
December 2022 – May 2023

- Built cloud infrastructure using Terraform for automated provisioning and scalability.
- Deployed microservices architecture using Kubernetes on AWS EKS and Google Cloud GKE.
- Implemented centralized logging and monitoring with ELK Stack, improving system observability.

EDUCATION

Bachelor of Computer Science
Veritas University