Kevin Odhiambo Data Scientist

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Profile

Data Scientist specializing in Machine Learning, Predictive Analytics, and AI-driven solutions. Experienced in developing scalable data models that improve efficiency and decision-making across AgriTech, FinTech, and AI Research. Proven track record in optimizing crop yield forecasts (+25%), enhancing pest detection (+17%), and automating analytics pipelines (-60% processing time). Passionate about leveraging AI to create sustainable, datadriven impact.

Professional Experience

2023/01 - present Nairobi, Kenya

Lead Data Scientist

Lima Labs Ltd

- Crop Yield Prediction & Forecasting: Built TensorFlow & YOLOv8 models, increasing yield prediction accuracy by 26%, enabling better resource allocation for 10,000+ farmers.
- Pest & Disease Detection: Optimized models using transfer learning, boosting detection accuracy from 75% to 92%, reducing farm losses by 17%.
- Automated Data Pipelines: Designed custom ETL processes, reducing preprocessing time by 60%, significantly improving data quality.
- Predictive Analytics for Decision Making: Developed XGBoost & LightGBM models, leading to 80% improved client insights through data visualization in Tableau & Plotly.
- Weather Impact Analysis: Created a multivariate regression model, reducing weather-related crop losses by 20%.
- A/B Testing for Agricultural Interventions: Applied Bayesian modeling, optimizing interventions that increased crop yields by 18%.
- Dashboard Development: Built a Flask-based internal dashboard, improving realtime farm-specific reporting & decision-making.

2024/02 - 2024/11

Consultant Data Scientist - Loan Repayment Prediction

One Acre Fund

- Developed an ML-powered risk assessment model to predict loan repayment behavior, targeting a 98% repayment rate.
- Built XGBoost & Random Forest models, improving repayment prediction accuracy to 87.3% (R² score).
- Engineered **key predictive features** (deposit_ratio, nominal_contract_value, repayment_ratio), increasing early repayment identification by 55.9%.
- Applied Bayesian modeling & A/B testing, reducing default rates by 32%.
- Designed an automated loan risk scoring system, enabling real-time client risk assessment for lenders.
- Conducted geospatial & demographic analysis, identifying high-risk loan regions to optimize lending strategies.
- Built visual analytics dashboards (Tableau, Plotly), improving loan officers' decision-making efficiency by 75%.

Tech Stack: Python, XGBoost, Random Forest, SQL, Tableau, Bayesian Modeling, Cloud Deployment (AWS/GCP), Flask

2022/01 - 2022/11 Nairobi, Kenya

Data Scientist

Dascot Ltd

• Developed an ML model for soil composition analysis & fertilizer recommendations.

- Created **custom R functions** for processing & manipulating field shapefiles, streamlining geospatial analysis.
- Implemented CRISP-DM methodology, improving project clarity & stakeholder communication.

Skills

• Data Science & AI: Machine Learning (TensorFlow, PyTorch, XGBoost, LightGBM), Predictive Analytics, Deep Learning, Computer Vision (YOLOv8, CNN),

Time Series Forecasting (LSTM, ARIMA).

Big Data & Cloud: Cloud Computing (AWS, GCP – BigQuery, S3, EC2), Data Engineering (ETL Pipelines, Spark, Kafka).

- **Programming & Data Analysis:** Python, R, SQL, Feature Engineering, Data Visualization (Tableau, Power BI, Plotly).
- **Software & Deployment:** API Development (FastAPI, Flask), MLOps & DevOps (Docker, Kubernetes, CI/CD).

Education

2021/12 - 2022/06

Data Science

Moringa School

- Business Intelligence
- Database Management
- Artificial Intelligence (AI)
- Mathematics
- Programming Languages: Python, R
- Machine Learning
- Data Visualization: PowerBi, Tableau

2016 - 2020

Biostatistics

Jomo Kenyatta University of Agriculture and Technology

- Statistics and Probability
- Data Mining
- Data Visualization
- · Ethics and Privacy

Projects

Leaf Disease Classification using TensorFlow and FastAPI

Early leaf disease detection

- Developed an end-to-end solution for crop leaf disease detection using computer vision and deep learning
- Implemented a CNN model with TensorFlow, achieving 95% accuracy in classifying healthy leaves, early blight, and late blight
- Built a RESTful API using FastAPI for seamless model integration
- Created an intuitive user interface with React[S for easy image upload and result visualization
- Deployed the system on AWS, ensuring scalability and high availability
- Reduced manual inspection time by 70% and improved early disease detection by 40%

Tech stack: Python, TensorFlow, FastAPI, ReactJS, AWS, Docker