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(Replace with professional headshot)

XcognVis
.Com

Intelligence · Innovation · Impact

AMON AQUILA WILFRED

Data Scientist · AI/ML/DL Specialist · Full Stack Engineer

Android Developer · Data Engineer · BI Consultant · Software Architect

✓ **Available Worldwide · Remote / On-site**

+254 112 554 165	+254 724 704 865	wilfredaquila@gmail.com	Nairobi, Kenya · EAT (UTC+3)

AI & ML	**Full Stack**	**Android**	**Data Science**
TensorFlow · PyTorch	React · Next.js · Node.js	Kotlin · Jetpack Compose	Analytics · BI · ETL
Scikit-learn · Keras	TypeScript · REST APIs	MVVM · Firebase	Visualization · Insights
Model Deployment	Responsive Design	Material Design 3	Predictive Models

LinkedIn	**GitHub**	**Portfolio**	**Upwork**	**Kaggle**
linkedin.com/in/wilfred-aquila	github.com/wilfred-aquila	vercel.app/portfolio	upwork.com/fl/wilfredaquila	kaggle.com/wilfredaquila

LANGUAGES

English (Fluent) · Swahili (Native)

AVAILABILITY

Full-Time · Contract · Remote · On-site

EXPERIENCE

4+ Years in AI/ML/Data/Full Stack

PROFESSIONAL SUMMARY

I am Amon Aquila Wilfred — Data Scientist, AI/ML Specialist, Full Stack Engineer, and Founder of XcognVis.Com. Based in Nairobi, Kenya, with 4+ years of hands-on experience, I design and deploy end-to-end intelligent systems that transform raw data into measurable business value. I work across the complete technology stack — from neural network architecture to production-ready web and mobile applications.

I operate independently with complete ownership of every engagement. I personally architect solutions, write production-grade code, conduct rigorous testing, and iterate until results exceed expectations. My approach combines scientific rigor with practical engineering discipline, delivering AI systems that are technically sound, business-ready, scalable, and maintainable over the long term.

My expertise spans artificial intelligence, machine learning, deep learning, NLP, chatbots, computer vision, Android development, full stack web development, database architecture, data engineering, business intelligence, data visualization, predictive analytics, and recommendation systems. This breadth enables me to serve clients across diverse industries worldwide from a single trusted point of contact — reducing coordination overhead while maintaining the highest technical standards.

HOW I WORK — MY PROFESSIONAL APPROACH

Full Ownership & Accountability
I take complete responsibility from initial strategy through deployment and beyond. Every line of code, every architectural decision, every client interaction — handled personally with professional care.

Research-First Methodology
I invest time in deep problem understanding before building. Every solution is grounded in the right algorithm, appropriate data strategy, and proven engineering patterns — never guesswork.

Client-Centric Communication
I translate complex technical concepts into clear, measurable business outcomes. You always understand what's being built, why it matters, and how it aligns with your strategic goals.

Clean, Maintainable Architecture
I write well-documented, tested, maintainable code that your team can understand and extend. No black-box solutions — everything is transparent, professional, and built to last.

Continuous Learning & Innovation
I stay at the forefront of AI/ML research and software engineering best practices, bringing the latest proven techniques to every project while maintaining stability and reliability.

Global Mindset, Local Expertise
Nairobi-based, world-ready. Fluent in English, experienced with distributed teams across time zones. Available in EAT (UTC+3) with flexible scheduling for international collaboration.

CORE VALUE PROPOSITION

INDEPENDENT OPERATOR
End-to-end ownership from strategy through deployment and support

GLOBAL CAPABILITY
World-class solutions delivered from Nairobi to markets worldwide

FULL-SPECTRUM EXPERTISE
AI + Web + Mobile + Data + Cloud integrated under one expert

"Learning is not weakness — it is wisdom and experience earned."
— Amon Aquila Wilfred, Founder, XcognVis.Com

TECHNICAL SKILLS & CORE COMPETENCIES

Artificial Intelligence & Machine Learning

Machine Learning | Deep Learning | Neural Networks | Reinforcement Learning
Transfer Learning | Model Evaluation | Hyperparameter Tuning | Ensemble Methods
Feature Engineering | AutoML | Computer Vision | Model Deployment
MLOps

Natural Language Processing & Conversational AI

Natural Language Processing | Text Classification | Sentiment Analysis | Named Entity Recognition
BERT / GPT Models | Chatbot Architecture | Intent Recognition | RAG Pipelines
LangChain | HuggingFace Transformers | Dialogue Systems | OpenAI API
Text Summarization

Data Science & Statistical Analysis

Statistical Analysis | Exploratory Data Analysis | Hypothesis Testing | Predictive Modelling
Time-Series Forecasting | A/B Testing | Business Intelligence | Report Generation
Insight Extraction | Correlation Analysis

Data Engineering & Big Data

ETL Pipelines | Big Data Processing | Data Warehousing | Data Quality Management
Automated Workflows | Apache Spark | Data Modelling | Apache Airflow
Stream Processing | Data Architecture

Data Visualization & Business Intelligence

Matplotlib | Seaborn | Plotly | Power BI
Tableau | Interactive Dashboards | Storytelling with Data | Chart Design
KPI Tracking

Full Stack Web Development

React.js | Next.js | Node.js | Express.js
TypeScript | JavaScript | HTML5 / CSS3 | Tailwind CSS
REST APIs | GraphQL | Responsive Design | Server-Side Rendering

Android & Mobile Development

Kotlin   Jetpack Compose   Android SDK   MVVM Architecture

Room Database   Firebase   Retrofit   Material Design 3

Google Play Publishing

C++ & Systems Programming

Memory Management   Object-Oriented C++   Operating System Concepts   Performance Optimization

Low-Level Programming   Cross-Platform Development   Debugging

Database Design & Management

PostgreSQL   MongoDB   MySQL   Redis

Schema Design   Query Optimization   Indexing Strategies   Normalization

Database Security   Backup & Recovery

Cloud Computing & DevOps

AWS (EC2, S3, Lambda)   Microsoft Azure   Google Cloud Platform   Docker

Kubernetes   CI/CD Pipelines   Git / GitHub   Linux Administration

Nginx   Serverless Architecture

AI/ML Libraries & Frameworks

TensorFlow   PyTorch   Keras   Scikit-learn

Pandas   NumPy   SciPy   OpenCV

YOLO   FastAPI   Streamlit   Gradio

Business & Strategic Consulting

Technical Consultation   Code Review   Sales Prediction   Recommendation Systems

Collaborative Filtering   Software Architecture   Agile / Scrum Methodologies   KPI Definition

Digital Transformation   Stakeholder Communication

PROFESSIONAL EXPERIENCE & WORK HISTORY

Founder & Lead AI/ML Engineer
January 2023 – Present

XcognVis.Com · Nairobi, Kenya · Remote Global Operations

- Founded and operate XcognVis.Com, a technology company delivering intelligent AI/ML solutions across multiple sectors including e-commerce, healthcare analytics, financial services, and enterprise automation.
- Architect and build complete ML pipelines from scratch — data ingestion, preprocessing, exploratory analysis, feature engineering, model training, validation, hyperparameter optimization, and production deployment with monitoring.
- Design and develop scalable full-stack applications integrating ML models with modern React/Next.js frontends, Node.js/Express backends, and PostgreSQL/MongoDB databases — handling 10,000+ concurrent users.
- Research, prototype, and deploy state-of-the-art AI systems including transformer-based NLP models (BERT, GPT), YOLO-based computer vision pipelines, and hybrid recommendation systems achieving 85-94% accuracy.
- Build and manage cloud infrastructure on AWS, GCP, and Azure for model hosting, automated retraining pipelines, real-time inference APIs, and continuous deployment — reducing operational costs by 40%.
- Deliver production chatbot and conversational AI systems for client automation, intelligent query handling, multi-turn context management, and 24/7 customer service — handling 5,000+ daily interactions.
- Operate as a complete end-to-end technology partner for clients — handling technical architecture, software development, quality assurance, comprehensive documentation, deployment, and ongoing client success management.

Data Scientist & AI Developer
January 2022 – Present

Independent Consulting & Client Projects · Remote / Nairobi

- Develop bespoke machine learning models for classification, regression, clustering, time-series forecasting, and anomaly detection tailored specifically to client data characteristics and business requirements.
- Implement comprehensive NLP solutions including sentiment analysis for customer feedback (85% accuracy), document classification for automated routing, text summarization for report generation, and named entity recognition for data extraction.
- Build interactive business intelligence dashboards and data visualization tools using Power BI, Plotly, and Tableau — translating complex datasets into clear, actionable insights for executive decision-making.
- Construct and fine-tune deep learning models for image recognition (92% accuracy), object detection in real-time video streams, facial recognition systems, and pattern analysis in medical imaging applications.
- Design and deploy production recommendation systems using collaborative filtering, content-based filtering, and SVD matrix factorization — increasing client e-commerce conversion rates by 23% on average.
- Build sales prediction and demand forecasting models combining Facebook Prophet time-series analysis, XGBoost regression, and ARIMA — helping retail clients reduce inventory overstock by 30% and stockouts by 45%.

Full Stack Developer & Software Engineer
January 2021 – Present

Independent Projects & Contract Work · Nairobi, Kenya · Remote

- Design and develop responsive, high-performance web applications using React.js, Next.js, TypeScript, and Tailwind CSS — achieving 95+ Google Lighthouse scores for performance, accessibility, and SEO.
- Build secure RESTful APIs and microservices using Node.js/Express integrated with PostgreSQL and MongoDB databases — handling 100,000+ API requests daily with 99.9% uptime.
- Architect and optimize relational and non-relational database schemas for maximum performance, data integrity, and scalability — reducing query times by 60% through strategic indexing and query optimization.
- Deploy production applications to cloud platforms (Vercel, AWS, Google Cloud) with CI/CD pipelines for automated testing, staging deployments, and zero-downtime production releases.
- Develop feature-rich Android applications using Kotlin and Jetpack Compose with MVVM architecture, Room local database, Firebase real-time sync, push notifications, and offline-first capability — published on Google Play with 4.5+ star ratings.

Technical Consultant & Code Reviewer
Independent Consulting · Remote

January 2022 – Present

- Conduct comprehensive code reviews for startups and established companies — identifying critical bugs, security vulnerabilities, performance bottlenecks, architectural weaknesses, and maintainability issues with detailed remediation plans.

- Provide strategic consultation on technology stack selection, system design decisions, AI/ML strategy formulation, cloud architecture, and digital transformation roadmaps aligned with business objectives.

- Assist organizations in defining meaningful KPIs, implementing data collection strategies, establishing analytical frameworks, and building data-driven cultures that connect analytics directly to competitive advantage.

- Deliver business intelligence consulting that transforms raw data assets into strategic insights, measurable outcomes, and sustained competitive differentiation in rapidly evolving markets.

KEY PROJECTS & PORTFOLIO HIGHLIGHTS

1 **AI-Powered Predictive Analytics Platform**

`Python` `TensorFlow` `XGBoost` `Scikit-learn` `React.js` `PostgreSQL` `AWS`

Comprehensive predictive analytics system using ensemble machine learning methods (Random Forest, XGBoost, Gradient Boosting) with automated feature engineering and cross-validation. Achieved consistent 82-94% model accuracy across multiple business domains. Built modern React frontend for real-time predictions, interactive data visualizations, and downloadable analytical reports. Deployed on AWS with auto-scaling, load balancing, and managed API endpoints serving 50,000+ predictions daily.

Accuracy: 82–94% · 50K+ daily predictions · AWS Production

2 **Intelligent ETL Data Processing Pipeline**

`Python` `Apache Spark` `PostgreSQL` `Airflow` `Docker` `Redis`

Production-grade automated data pipeline processing 1M+ records daily with robust data quality checks, intelligent deduplication, multi-stage validation layers, error recovery mechanisms, and automated alerting. Reduced manual data processing time by 70% and improved overall data accuracy by 40% through systematic quality gates. Fully containerized with Docker, orchestrated via Apache Airflow, with Redis caching for performance optimization.

1M+ records/day · 70% time reduction · 40% accuracy improvement

3 **NLP Chatbot & Conversational AI System**

`Python` `HuggingFace` `LangChain` `FastAPI` `React.js` `MongoDB`

Production-ready conversational AI chatbot leveraging fine-tuned transformer models (BERT) with custom domain adaptation for industry-specific terminology. Implements advanced intent classification (93% accuracy), named entity extraction, multi-turn context management, and conversational memory. Supports real-time streaming responses via FastAPI backend integrated with React frontend and MongoDB conversation history storage.

93% intent accuracy · Multi-turn context · Real-time streaming

4 **Computer Vision Object Detection System**

`PyTorch` `YOLOv8` `OpenCV` `FastAPI` `Docker` `Flask`

Real-time object detection pipeline using YOLOv8 with custom dataset training (5,000+ labeled images), data augmentation, and transfer learning. Implemented model quantization and pruning for edge deployment achieving 30 FPS on CPU. RESTful Flask/FastAPI inference API with annotated image/video output, batch processing, and interactive web UI for testing and demonstration.

Real-time 30 FPS · Edge-optimized · Custom trained

5 **E-Commerce Recommendation Engine**

`Python` `Scikit-learn` `FastAPI` `React.js` `Redis` `PostgreSQL`

Hybrid recommendation system combining collaborative filtering (user-user and item-item), content-based filtering using TF-IDF and cosine similarity, and SVD matrix factorization for dimensionality reduction. Deployed as a high-performance RESTful microservice with Redis caching delivering personalized product suggestions in <50ms. Achieved measurable 23% improvement in click-through rates and 15% increase in average order value.

23% CTR improvement · 15% AOV increase · <50ms response

6 Sales Forecasting & BI Dashboard

Python · Prophet · XGBoost · Power BI · PostgreSQL · Streamlit

Multi-model sales forecasting system combining Facebook Prophet for time-series decomposition and XGBoost regression for external factor integration (holidays, promotions, weather). Built comprehensive Power BI dashboard with drill-down capabilities, trend analysis, seasonality visualization, and export functionality. Helped retail clients reduce inventory overstock by 30% and improve demand planning accuracy by 35%.

30% overstock reduction · 35% forecast accuracy · Multi-model

7 Android Mobile Application — Full Featured

Kotlin · Jetpack Compose · Room DB · Firebase · Retrofit · Android SDK

Feature-complete Android application with clean MVVM architecture, modern Jetpack Compose UI toolkit, Room local database for offline storage, Firebase real-time database sync, Retrofit for REST API integration, push notifications via FCM, and offline-first capability with conflict resolution. Follows Material Design 3 guidelines, fully tested with unit and integration tests, ready for Google Play publication.

MVVM · Offline-first · Material Design 3 · Play Store Ready

8 Full Stack Portfolio & Developer Platform

Next.js · React · TypeScript · Tailwind CSS · Vercel · MongoDB

Modern, fully responsive portfolio platform built with Next.js featuring server-side rendering for optimal SEO. Achieved 95+ Google Lighthouse score across all metrics (performance, accessibility, best practices, SEO). Includes dynamic content management, dark/light theme switching, integrated blog with MDX support, contact forms, and analytics integration. Live deployment: my-portfolio-lime-gamma-35.vercel.app

Lighthouse 95+ · SSR optimized · Live on Vercel

EDUCATION & ACADEMIC BACKGROUND

Bachelor of Science in Computer Science
Currently Pursuing · Expected 2025

Mount Kenya University (MKU) · Nairobi, Kenya

Comprehensive programme covering software engineering principles, advanced algorithms and data structures, operating systems, database management systems, computer networks, software architecture, and modern computing paradigms. Academic learning directly applied to professional client projects and real-world problem-solving throughout the degree programme.

PROFESSIONAL DEVELOPMENT & CONTINUOUS LEARNING

Machine Learning & Deep Learning Specialization 2022–Present
Advanced Self-Directed Study · Coursera / Fast.ai

Natural Language Processing & Transformers 2023
HuggingFace · LangChain · OpenAI API Integration

Advanced Python Programming & Algorithms 2022
Data Structures · Algorithm Design · Optimization

Cloud Architecture & DevOps Engineering 2023
AWS Solutions Architect · GCP · Azure Fundamentals

Full Stack Web Development Mastery 2021–2023
React · Next.js · Node.js · TypeScript Ecosystem

Android Development with Kotlin 2023
Jetpack Compose · MVVM · Material Design 3

Data Engineering & Big Data Processing 2023
ETL Pipelines · Apache Spark · Airflow Orchestration

Business Intelligence & Analytics 2022
Power BI · Tableau · Advanced Data Visualization

Database Design & Performance Optimization 2022
PostgreSQL · MongoDB · Redis · Query Tuning

Software Architecture & Design Patterns 2022
Clean Architecture · SOLID Principles · Code Review

PROFESSIONAL SERVICES OFFERED

Artificial Intelligence Solutions · Machine Learning Systems · Deep Learning Models

Natural Language Processing · Chatbot Development · Computer Vision Systems

Android Application Development · Full Stack Web Development · Software Engineering

Database Design & Architecture · Database Development · Database Administration

Data Science & Analytics · Advanced Data Analytics · Data Engineering Pipelines

Data Visualization & BI · Business Intelligence Dashboards · Sales Forecasting

Recommendation Systems · Code Review & Auditing · Technical Consultation

Software Maintenance & Support · Cloud Architecture · API Development & Integration

ONLINE PRESENCE & PROFESSIONAL PROFILES

in
LinkedIn
linkedin.com/in/wilfred-aquila
Professional networking, industry endorsements & peer recommendations

gh
GitHub
github.com/wilfred-aquila
Open-source contributions, code samples & technical demonstrations

up
Upwork
upwork.com/fl/wilfredaquila
Freelance profile with verified client reviews & work history

■
Portfolio
my-portfolio-lime-gamma-35.vercel.app
Live projects, case studies, technical blog & thought leadership

kg
Kaggle
kaggle.com/wilfredaquila
Data science notebooks, competition submissions & public datasets

PROFESSIONAL TESTIMONIALS & REFERENCES

"
Wilfred delivered an exceptional machine learning solution that exceeded every technical and business expectation. His combination of deep technical expertise, meticulous attention to detail, proactive communication, and genuine commitment to project success made the entire engagement seamless and highly productive.
Technical Director, E-Commerce Platform — Available upon request

"
Working alongside Wilfred on complex data engineering challenges showed me someone who combines serious technical depth with an authentic drive to deliver exceptional results. His problem-solving approach, code quality, and collaborative spirit make him the kind of engineer every team wants to work with.
Lead Engineer, Financial Services — Availability upon request

A PERSONAL MESSAGE

Thank you — genuinely and sincerely — for investing your valuable time in carefully reviewing this resume. In a world where applications are often dismissed within seconds, your willingness to engage thoughtfully with my work, background, and professional story means a great deal to me. I do not take your time and attention for granted.

What you have read here is not merely a technical skill inventory or role listing. This is the professional story of someone deeply and relentlessly passionate about what happens when intelligent technology meets real-world challenges and human needs. Every model I have trained, every system I have shipped, and every line of code I have written has been driven by one core conviction: that technology, when done right with both technical excellence and human consideration, genuinely transforms businesses and creates lasting value for real people.

I work independently by choice because I believe fundamentally in complete ownership, total accountability, and direct responsibility for outcomes. When you bring me into your project or organization, you gain a deeply committed technical partner who thinks strategically about business impact, works with engineering precision and discipline, communicates clearly and proactively, and cares about your success and outcomes as deeply as you do — because your success is my success.

I may be based in Nairobi, but my technical skills, professional mindset, global perspective, and career ambitions extend far beyond borders. Fluent in English, experienced with distributed and remote team collaboration, available in EAT (UTC+3) with flexible scheduling, and ready to collaborate effectively across any time zone with clients and teams worldwide.

I am ready. I am capable. I am genuinely excited about what we could build together.

With sincere gratitude and professional ambition,

Amon Aquila Wilfred

Founder, XcognVis.Com · Nairobi, Kenya · Available Worldwide

LET'S CONNECT — BUILD SOMETHING EXTRAORDINARY TOGETHER
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