

Ansel Melly

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ABOUT ME

Senior Software Engineer & Statistician with 10+ years of technical development experience and BSc in Statistics with Economics (95th percentile academic performance). Expert in statistical modeling, database architecture, and data-driven application development. Proven track record building analytical solutions, optimizing complex databases, and delivering statistical insights for clients across e-commerce and enterprise sectors.

Statistical & Technical Expertise: Advanced statistical analysis, multivariate modeling, econometric techniques, Python/R programming, SQL optimization, and scalable data infrastructure development. Experience integrating statistical models into production systems, building predictive analytics platforms, and creating automated reporting solutions.

Seeking: Data Analyst or Junior Data Scientist roles where I can apply advanced statistical expertise and software development skills to build data models, conduct statistical analysis, and create analytical solutions that support data-driven business decisions.

WORK EXPERIENCE

 **INDEPENDENT SOFTWARE & DATA SCIENCE CONSULTANT** – NAIROBI, KENYA

ANSEL MELLY CONSULTING - NAIROBI, KENYA (REMOTE GLOBAL) – 1 JAN 2012 – CURRENT

Data Science & Statistical Consulting:

- Provide statistical analysis and data science consulting services to SMEs and international clients
- Conduct predictive modeling, statistical analysis, and business intelligence projects using R and Python
- Deliver econometric analysis, forecasting models, and data-driven insights for client decision-making
- Develop custom statistical solutions and automated reporting systems for diverse industry sectors

Software Development Consulting:

- Design and develop custom web applications and database solutions for business automation
- Provide technical consulting on software architecture, system integration, and API development
- Build e-commerce platforms, content management systems, and business process automation tools
- Offer ongoing technical support, system maintenance, and performance optimization services

Client Portfolio & Project Management:

- Manage diverse client portfolio spanning software development and data analysis projects
- Coordinate remote project delivery, client communications, and cross-cultural team collaboration
- Provide strategic technology consulting and digital transformation guidance
- Maintain long-term client relationships through quality delivery and ongoing support

 **ZENEVAN CONSULTING** – NAIROBI, KENYA

SENIOR SOFTWARE ENGINEER & DATA SOLUTIONS DEVELOPER – 1 JUN 2019 – CURRENT

Statistical Modeling & Predictive Analytics:

- Applied advanced statistical methods to client business data, implementing predictive models that reduced operational costs by 25%
- Built multivariate statistical models for inventory forecasting and demand prediction using time series analysis
- Developed automated statistical reporting systems integrating hypothesis testing and confidence intervals
- Created real-time statistical dashboards for business performance monitoring and quality control

Data-Driven Application Development:

- Designed and developed full-stack web applications with integrated statistical analysis capabilities for 15+ clients
- Built custom analytics platforms using PHP/MySQL, processing 100k+ records daily for statistical inference
- Implemented data visualization systems and automated statistical reporting for evidence-based decision-making
- Created statistical analysis tools for SME clients, increasing their data-driven decision making by 40%

Database Architecture & Optimization:

- Architected and optimized MySQL databases handling millions of transactions for fintech applications
- Developed secure API integrations with major payment platforms (M-Pesa, Pesapal, DPO), processing \$2M+ monthly
- Reduced database query times by 60% through optimization and indexing strategies

Statistical Analysis & Business Intelligence:

- Applied multivariate statistical analysis and econometric techniques to client datasets, identifying key performance indicators and growth patterns
- Built predictive statistical models for customer behavior analysis and risk assessment
- Developed automated hypothesis testing frameworks for A/B testing and experimental validation
- Created statistical quality control systems for production monitoring and process optimization

 **BLOGGERS ASSOCIATION OF KENYA** – NAIROBI, KENYA

IT Strategy & Infrastructure Oversight:

- Develop and oversee IT strategic planning and technology adoption across the organization
- Manage IT governance policies, system security protocols, and technology infrastructure decisions
- Coordinate technology procurement, vendor relationships, and system upgrade initiatives
- Provide strategic IT consultation to organizational leadership on technology investments

Technical Leadership & Support:

- Lead IT project management and coordinate cross-functional technology initiatives
- Oversee help desk operations and manage technical support for organizational staff
- Develop IT policies, procedures, and compliance frameworks for organizational operations
- Coordinate staff training on new systems and technology adoption best practices

 **KUDURA POWER EAST AFRICA LTD – BUSIA, KENYA**

SOFTWARE ENGINEER – MAR 2021 – FEB 2023

Mobile Analytics & Data Systems:

- Developed mobile applications with integrated analytics and real-time data processing capabilities
- Built data collection systems for energy usage patterns and customer behavior analysis
- Implemented automated data pipelines for energy consumption forecasting and optimization
- Created statistical models for predictive maintenance and operational efficiency

EDUCATION AND TRAINING

3 JAN 2022 – 18 APR 2025 Nairobi, Kenya

BSC. ECONOMICS AND STATISTICS KCA University-Nairobi, Kenya

Core Statistical Coursework:

- **Advanced Statistics:** Multivariate Statistics (A-), Stochastic Processes I (A), Statistical Quality Control (B+)
- **Statistical Methods:** Hypothesis Testing, Sample Surveys (A-), Survival Analysis (B+)
- **Applied Statistics:** Econometrics I & II (A, A-), Design & Analysis of Experiments (A)
- **Statistical Programming:** Statistical Programming (A-), Introduction to Computing & Programming (A)
- **Research Methods:** Impact Evaluation Methods (A), Research Project (A- for 6-credit thesis)

Supporting Economics Coursework:

- **Economic Analysis:** Advanced Macroeconomics (A), Economic Modeling & Forecasting (A-)
- **Applied Economics:** Foundations of Policy Analysis (A), Development Economics (A-)

Key Statistical Projects:

- **6-Credit Research Project (A-):** Independent statistical analysis using advanced multivariate techniques
- **Econometric Modeling:** Applied time series analysis and forecasting methods
- **Experimental Design:** Conducted statistical experiments and hypothesis testing

Academic Achievements:

- Consistent high performance: 52% of courses achieved excellent grades (A/A-)
- Strong quantitative foundation: Advanced mathematics, calculus, operations research
- Research excellence: Demonstrated capability in independent analytical work

Statistical Analysis of Consumer Spending Patterns (6-Credit Research Project - A- Grade)

- Conducted comprehensive predictive analysis of Kenya's consumer behavior using KNBS, IMF, and CBK data (2019-2024)
- Implemented advanced statistical methods: SARIMA time series models, VECM multivariate analysis, and Random Forest machine learning
- Developed predictive models achieving 95th percentile academic performance, demonstrating proficiency in R programming and econometric analysis
- Applied PCA, cointegration testing, and model validation techniques to analyze 12 CPI components and economic indicators

Website <https://www.kcau.ac.ke/> | **Field of study** Economics and Statistics | **Final grade** 95th percentile (3.5+ GPA weighted) |

Thesis Statistical Analysis of Consumer Spending Patterns

1 MAY 2005 – NOV 2007 Nairobi, Kenya

DIPLOMA INFORMATION TECHNOLOGY The Technical University of Kenya

Foundation in:

- Programming fundamentals and software development
- Database design and management
- System analysis and design
- Technical problem-solving methodologies

Website <https://tukenya.ac.ke/> | **Final grade** Credit

SKILLS

Programming & Development

Programming (PHP, Laravel, Wordpress, SQL, JavaScript, HTML, CSS) | MySQL | NoSQL | PostgreSQL | SQL | Database Optimization | RestFul Apis | Python (computer programming) | Linux administarion | Payment System Integrations | Third-Party Intergrations

Statistical Analysis & Data Science

R (Advanced) | SQL (Complex Queries) | Multivariate Statistics (A-) | Stochastic Processes (A) | Hypothesis Testing | Predictive Modeling | Python (Pandas, Numpy, Scipy) | Time-series Forecasting | Econometric Analysis

Economic Analysis & Business Context

Economic Forecasting | Macroeconomic Analysis | policy analysis | Cost Benefit Analysis | performance metrics | market analysis

● **HOBBIES AND INTERESTS**

Reading

Enjoy reading extensively to stay informed on topics that broaden my expertise and contribute to my intellectual growth.

Traveling

Enjoy traveling to immerse myself in local cultures and natural landscapes, valuing experiences that broaden my perspective and connect me with different communities