Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

TAXATION AND REVENUE

Tax Analytics & Data Science for Tax Training course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
5 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 21, 2026

Academic & Professional Training Year: 2026

DATASTAT TRAINING INSTITUTE

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Tax Analytics & Data Science for Tax Training course

Taxation and Revenue • 5 Days Intensive • Accredited Certification

Course Overview

Tax Analytics & Data Science for Tax Training course equips participants with the essential skills to transform raw tax data into actionable insights, fostering data-driven decision-making and strategic planning in tax administration.

Key Skills & Software Tools Covered

Ms Word

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
29 Dec 2025 – 2 Jan 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
29 Dec 2025 – 2 Jan 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 90,000**
29 Dec 2025 – 2 Jan 2026	Accra	Classroom / 5d	**$4,000 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
5 Jan 2026 – 9 Jan 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 90,000**
5 Jan 2026 – 9 Jan 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

Tax Analytics & Data Science for Tax Training course

Introduction

The rapid evolution of tax administration and global revenue systems has made tax analytics and data science indispensable for modern tax professionals. Governments and organizations are increasingly leveraging advanced analytics, machine learning, and big data tools to improve compliance, enhance revenue collection, and mitigate risks. Understanding patterns in taxpayer behavior, detecting anomalies, and forecasting revenue trends require a deep integration of data science with tax knowledge. Tax Analytics & Data Science for Tax Training course equips participants with the essential skills to transform raw tax data into actionable insights, fostering data-driven decision-making and strategic planning in tax administration.

Data-driven taxation not only streamlines processes but also enhances transparency, strengthens public perception, and optimizes organizational efficiency. By harnessing predictive analytics, visualization tools, and statistical modeling, participants will learn to identify tax gaps, reduce evasion, and ensure compliance. Through practical case studies, interactive modules, and real-world datasets, learners will gain a hands-on understanding of modern tax analytics frameworks. This training ensures participants are equipped to contribute effectively to organizational success while embracing the evolving landscape of taxation in the digital era.

Course Objectives

- Understand fundamental concepts of tax analytics and data science.
- Explore big data applications in tax compliance and revenue collection.
- Develop skills in predictive modeling for tax risk assessment.
- Implement machine learning techniques for taxpayer segmentation.
- Apply data visualization tools to identify tax patterns.
- Analyze historical tax data to forecast future revenues.
- Identify tax gaps and non-compliance trends using analytics.
- Utilize statistical tools for audit prioritization.
- Integrate automated reporting systems into tax workflows.
- Understand ethical considerations in tax data management.
- Evaluate the impact of digital taxation on revenue streams.
- Develop data-driven strategies for enhancing taxpayer services.
- Strengthen organizational decision-making through actionable insights.

Organizational Benefits

- Improved revenue collection efficiency
- Enhanced taxpayer compliance
- Data-driven risk assessment and mitigation
- Streamlined audit and enforcement processes
- Better strategic planning in tax administration
- Enhanced transparency and accountability
- Reduced instances of tax evasion
- Improved organizational agility and responsiveness
- Adoption of cutting-edge analytics technologies
- Strengthened public perception and credibility

Target Audiences

- Tax auditors and compliance officers
- Revenue authority analysts
- Tax consultants and advisors
- Financial controllers and accountants
- Data analysts working in finance
- Risk management professionals
- Policy makers and government officials
- IT professionals in tax administration

Course Duration: 5 days

Course Modules

Module 1: Introduction to Tax Analytics

- Fundamentals of tax analytics
- Overview of data science in taxation
- Key tools and technologies
- Importance of data-driven decision-making
- Case study: Implementing analytics in a regional tax authority
- Hands-on exercises in tax data collection

Module 2: Data Management for Taxation

- Data collection and cleaning
- Data storage solutions
- Taxpayer information systems
- Ensuring data quality and integrity
- Case study: Centralized taxpayer database management
- Practical exercise in data preprocessing

Module 3: Statistical Analysis in Tax

- Descriptive statistics for tax data
- Inferential statistics and hypothesis testing
- Trend analysis in compliance
- Correlation and regression models
- Case study: Statistical analysis of VAT compliance trends
- Practical exercises using statistical software

Module 4: Predictive Analytics and Forecasting

- Introduction to predictive modeling
- Time series analysis for tax revenue
- Forecasting non-compliance risk
- Scenario modeling for tax planning
- Case study: Predicting revenue gaps in corporate taxes
- Hands-on predictive modeling exercises

Module 5: Machine Learning in Tax Compliance

- Supervised vs. unsupervised learning
- Classification and clustering for taxpayer segmentation
- Anomaly detection in tax data
- Risk scoring using machine learning
- Case study: Machine learning for audit selection
- Practical exercises using Python/R

Module 6: Data Visualization and Reporting

- Visualization principles for tax data
- Interactive dashboards and reporting tools
- Communicating insights to stakeholders
- Performance monitoring through visualization
- Case study: Visualizing tax compliance trends
- Hands-on dashboard creation

Module 7: Tax Risk Management Analytics

- Identifying high-risk taxpayers
- Predictive models for risk assessment
- Tax gap and evasion measurement
- Prioritizing audits using analytics
- Case study: Risk-based audit strategies
- Exercise on risk scoring models

Module 8: Digital Taxation and Emerging Trends

- E-filing and e-invoicing analytics
- Blockchain and AI in tax administration
- International best practices in tax analytics
- Future trends in data-driven taxation
- Case study: Digital transformation in tax authorities
- Group discussion and strategic planning exercise

Training Methodology

- Interactive lectures with real-world examples
- Hands-on exercises using industry-standard tools
- Case studies for practical learning
- Group discussions and brainstorming sessions

- Simulations of tax risk scenarios
- Use of dashboards and reporting software

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/tax-analytics-data-science-for-tax-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.