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

ENTERPRISE RESOURCE PLANNING (ERP)

Predictive Analytics for ERP 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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Predictive Analytics for ERP Training Course

Enterprise Resource Planning (ERP) • 5 Days Intensive • Accredited Certification

Course Overview

Predictive Analytics for ERP Training Course empowers professionals to leverage advanced predictive modeling, machine learning, and data-driven decision-making within ERP environments, driving efficiency, reducing operational risks, and optimizing business performance.

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

Predictive Analytics for ERP Training Course

Introduction

In today's data-driven business landscape, integrating predictive analytics with ERP systems is no longer optional it's a strategic imperative. Predictive Analytics for ERP Training Course empowers professionals to leverage advanced predictive modeling, machine learning, and data-driven decision-making within ERP environments, driving efficiency, reducing operational risks, and optimizing business performance. Participants will gain hands-on experience in translating raw ERP data into actionable insights, enabling forecasting, trend analysis, and predictive decision support across finance, supply chain, HR, and production domains.

By the end of this program, learners will understand how to harness AI-powered analytics, real-time data monitoring, and business intelligence dashboards to uncover patterns, predict anomalies, and deliver measurable business outcomes. The course combines practical case studies, industry-relevant simulations, and ERP analytics best practices, ensuring that participants can immediately apply predictive insights to real-world business scenarios.

Course Duration

5 days

Course Objectives

- Master predictive analytics concepts and their applications in ERP systems.
- Understand ERP data architecture for effective analytics.
- Apply machine learning algorithms to forecast business trends.

- Develop demand forecasting models for inventory optimization.
- Implement financial predictive models to improve cash flow management.
- Analyze supply chain and procurement data for risk mitigation.
- Design HR analytics models for workforce planning and attrition prediction.
- Utilize real-time ERP dashboards for actionable insights.
- Integrate AI-driven predictive solutions with ERP platforms.
- Perform anomaly detection to identify operational inefficiencies.
- Translate predictive analytics outputs into strategic business decisions.
- Build scenario analysis models to optimize operational planning.
- Explore industry-specific case studies to implement best practices.

Target Audience

- ERP Managers and Consultants
- Business Analysts
- Data Scientists and Data Analysts
- Finance and Accounting Professionals
- Supply Chain and Operations Managers
- HR Managers and Workforce Analysts
- IT Managers and ERP Administrators
- Decision-makers seeking data-driven strategic insights

Course Modules

Module 1: Introduction to Predictive Analytics for ERP

- Overview of predictive analytics in ERP systems
- Key terminology and techniques
- Role of analytics in business decision-making
- Data sources and ERP data integration
- Case Study: Predictive maintenance in manufacturing

Module 2: ERP Data Architecture and Preprocessing

- Understanding ERP database structures
- Data extraction and transformation
- Handling missing and inconsistent data
- Data cleaning techniques for predictive modeling
- Case Study: Sales data preprocessing for forecasting

Module 3: Machine Learning for ERP

- Supervised vs. unsupervised learning
- Regression, classification, and clustering models
- Model selection and validation
- Implementing ML in ERP scenarios
- Case Study: Customer churn prediction in retail

Module 4: Forecasting and Demand Planning

- Time series forecasting techniques
- Seasonal trend analysis
- Inventory optimization using predictive analytics
- Forecast accuracy metrics
- Case Study: Demand planning in FMCG industry

Module 5: Financial Predictive Analytics

- Cash flow forecasting
- Risk assessment and fraud detection
- Budget optimization using predictive models

- Scenario analysis and decision support
- Case Study: Predictive financial modeling in banking

Module 6: Supply Chain & Operations Analytics

- Procurement forecasting
- Supplier risk and performance analysis
- Inventory replenishment models
- Predictive maintenance in operations
- Case Study: Logistics optimization in e-commerce

Module 7: HR and Workforce Predictive Analytics

- Employee attrition prediction
- Workforce planning and scheduling
- Performance analytics using ERP data
- Talent acquisition analytics
- Case Study: HR predictive modeling in IT sector

Module 8: ERP Predictive Analytics Implementation & Best Practices

- Dashboard creation and visualization
- KPI monitoring and reporting
- Integration with ERP systems
- AI-driven predictive tools in ERP
- Case Study: End-to-end predictive analytics implementation in manufacturing

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

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/predictive-analytics-for-erp-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.