

Designing & Implementing Enterprise Early Warning Systems

*For Enterprise Risk Management and
Strategy Execution Management Functions*

Lagos, Nigeria
September 25 - 29, 2023

Learn how to use data science-based approaches and tools to model and assess risks and implement predictive models to detecting anomalous behavior in portfolio risk measures. impact of strategic initiatives, report on strategy and strategic objectives and implement predictive models to detecting anomalous performance events and metrics.. Learn about emerging practices in predictive analytics within the risk management and strategy management space. Learn how to transform data into powerful risk-based anomaly detection insights.



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Data Analytics Firm

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Program Fees

~~₦~~1,850,000

Net of ALL Deductions
Covers course, course materials
and meals only

Sending a group?
Ask for Group Discount



Course Description

Organizations, especially Insurance and Financial institutions manage numerous portfolios whose risk must be managed continuously while at the enterprise levels, Risk Management teams struggle to effectively map the universe of risks associates with their organization’s policy, strategy and operations. The large amounts of data that must be processed in these scenarios render this a considerable effort. Data science-based approaches offer a system that autonomously detects anomalies in the risk measures of financial portfolios and helps orchestrate early warning systems to automatically track and identify risk.

This course shows corporate executives, Risk Managers and team members in the risk management and audit functions design, implement and deploy data science-based early warning systems for risk management.

This course features 5-days in person training and 3 live Zoom based bootcamp-style project sessions designed to improve mastery in small teams though real-life project-based live online training and handholding sessions

Course Objectives

The course introduces participants to data science and data science-based approaches to modeling risk in any domain.

Through a series of well-structured learning modules, this Course aims to build capability in participants to adopt and apply data science and machine learning-based approaches to implement robust risk management systems in their organizations and deploy an early warning system for enterprise, strategy and strategic initiatives risk management as well as operational/transactional risk domains.

Who Should Enroll

For corporate executives and team leads who work with data in the following functions;

- Enterprise Risk Management | strategy Management | Human Capital Management | Performance Management | Strategic Programs/Projects Management | Internal Audits & Quality Assurance | Financial Crime Analysts | Transaction Monitoring Professionals | Business process management

What You Will Learn

- Move beyond the spreadsheet with a foundational understanding of data science tools, processes, and models and to apply them to uncover insight from data
- Leverage data science to transform your risk management and reporting system while avoiding common mistakes associated with interpreting datasets, performance metrics, and risk profile/pattern visualizations
- Create a data-driven framework for your organization’s risk management system across all types and levels of risk
- understand the different outlier detection techniques and review evaluation criteria,
- Learn advanced techniques in anomaly detection and use these to implement an early warning system for a proactive, future-oriented risk management.

If you are in the Risk Management function, Internal Audit, Quality Assurance Financial Crime or Economic Intelligence Unit, Process improvement or Transaction monitoring and would like to become a data science-based practitioner of predictive analytics – or if you already are and would like to hone your knowledge across methods and best practices – this workshop is for you.

Register For This Event

Scan To Register



Register at Course Website:
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Email to Register

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Call to Register

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Course Content

This course includes a required participant preparation ahead of the 5-day in-person session. The course starts with introduction to data science and data science-based approaches to modeling. It covers a review of the core techniques in anomaly detection and how to apply these approaches and tools to build and deploy an early warning system for enterprise risk management as well as operational/transactional risk domains.

This course features 5-days in person training and 3 live Zoom based bootcamp-style project sessions designed to improve mastery in small teams though real-life project-based live online training and handholding sessions

Program Pre-Read & Prep: Introduction to Data Science and data-driven Decision Making

Module 1: Introduction to Business Analytics: Descriptive Analytics: Gathering Insights
Identify effective methods for collecting data on customer behavior and use it to make better decisions for your business.

Module 2: Descriptive Analytics: Describing and Forecasting Future Events. Learn how to use historical data such as trends and consumption patterns to estimate forecasts for the future.

Module 3: Anomaly Detection: An introduction

- Graphical and Exploratory analysis techniques
- Statistical techniques in Anomaly Detection
- Machine learning methods for Outlier analysis
- Case study 1

Module 4: Evaluating performance in Anomaly detection techniques

- Case study 1: Anomalies in Freddie mac mortgage data
- Case study 2

Module 5: anomalies in time series data

Module 6: Predictive Analytics: Tools for Decision Making.
Interpret and visualize the results of simulation models to evaluate complex business decisions in conditions of uncertainty

Module 7: Anomaly Detection: Advanced techniques

- Looking for anomalies in large and complex data sets
- Anomaly Detection and Fraud Detection in Temporal datasets
- Case study 3:

Module 8: - Deep Learning techniques in Anomaly detection

- Case study 4: Auto-encoder based Anomaly Detection for Credit risk with Keras and Tensorflow

Module 9: Designing and Building the Risk management Early Warning System

- Designing the Data pipeline
- Selecting Risk Modeling approach
- Implementing the Early Warning System dashboard
- Communicating Risk Anomalies

Module 10: Application of Data Science to your function: create a plan to put data and data science-based modeling to work in your organization.

Training Structure



IN - PERSON



VIRTUAL

This program adopts a hybrid approach to accelerating learning among participants with the following structure;

In-Person Class

a 5-day in person training to cover basic concepts data analytics and data science. At the end of this component, participants are placed in small teams and assigned a project designed to reinforce learning and improve mastery. The Bootcamps that follow, provide hand-holding support to participants to complete these projects

BootCamp 1

Bootcamp 1 is a FULL day Zoom based session. This is a hands-on tutorial style session in which our seasoned Instructors work with participants in their teams to organize in readiness to complete assigned project milestones and connects all the dots between theoretical concepts learnt and their practical applications

BootCamp 2

Bootcamp 2 is a HALF day Zoom based session. It is a hands-on tutorial focused on working with participants in their teams to review completed work on assigned project milestones and provide feedback and next steps

BootCamp 3

Bootcamp 3 is a half day Zoom session focused on reviewing the completed project, assisting participants create a self-development plan and working with participants to identify organization-specific projects to directly apply the learned data science skills immediately on-the-job

Learning Experience



PROGRAM DURATION
Total Span: 8 Weeks

Four Parts with 2 weeks intervals



FORMAT

Part 1: 5-day In-person
Part2: Full Day Boot Camp (Zoom)
Part3: Half Day Boot Camp (Zoom)
Part4: Half Day Boot Camp (Zoom)



COURSE LENGTH
In-Person: 5 Days



CLASS SIZE
Under 35 Persons



HANDS ON
50% Component



EFFORT
3 – 5 hours per week



PROJECT LENGTH
Virtual Bootcamp : 7 Weeks

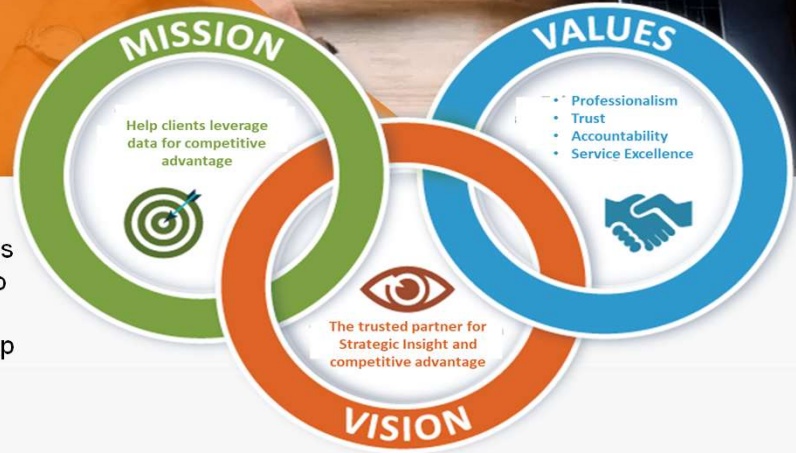


TEACHING MODEL
Learning Portal, Instructor-led Plus, Project-based Bootcamps



PRE-COURSE MATERIALS
Includes pre-course CBT and prep work

About Prognoz.ai



We help organizations improve the quality of strategic decisions from insights uncovered in their data. We help organizations go from data to insights that power their strategy and operations through the application of machine learning and AI. Our flagship service implemented in several leading organizations includes the application of machine learning in Early Warning Systems Models for strategy, strategic initiatives management, performance management and risk management, and in Decision Support Systems Models that proactively track performance at all levels of the organization and detects the onset of performance anomalies and therefore enables executives to respond proactively to manage both risk and performance.

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Our Clients

HITACHI

Inspire the Next
Implemented marketing strategy and performance management system for market development and service fulfillment

FirstEnergy

Implemented a full cycle performance management system with predictive modeling

JPMorganChase

Implemented a Data Analytics and predictive modeling for business process performance management



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MINISTRY OF HEALTH-ETHIOPIA

Implemented a full cycle strategy and performance management system for primary healthcare management and inclusion



Implemented an automated performance management system for strategy and workforce performance management in Commercial Banking

Johnson & Johnson

Implementing Data Analytics and predictive modeling for drug adverse reactions management in clinical trials

BRIDGESTONE



Implemented a Data Analytics and predictive modeling for performance anomaly detection

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