Mastering Data Science & Predictive Analytics

Leveraging Data & Predictive Analytics For Managers and Team leads

LEVEL 1

Lagos, Nigeria
Sept 11 - 15, 2023

The traditional approach to analyzing data to support decisions and strategic initiatives at the strategic, business, functional operations, teams and individual levels in organizations is no longer sufficient to drive sustainable performance. Highly successful businesses leverage their data to better understand their people, process, strategy and their customers and learn from the collective experiences of their organizations to remain competitive. **This course helps managers and team leads master how to leverage data and data analytics to lead with strategic insight**

Register Today!

Scan To Register

Call to Register:
+234 81 888 22331

Email to Register:
programs@prognoz.ai

Register at Website:
https://prognoz.ai/courses/data-analytics-professional-program/26

Program Fees

₦1,550,000
Net of ALL Deductions
Covers course, course materials and meals only

Sending a group?
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Course Description

Managers and their teams are faced with the difficult task of finding insight in their organization's data to drive performance enabling decisions. Data and the ability of managers to leverage insight from it are now core competences that frame success or failure in decision making and the selection of strategic options. Prognoz.ai's program in Data Science & Predictive Analytics for Business Professionals provides individuals the skills needed to effectively collect and manage Big Data and perform data-driven discovery and prediction, extracting value and competitive intelligence for their organizations.

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

At the core of firms driving effective strategy and high levels of corporate and workforce performance is data and analytics powered by diagnostic, predictive and prescriptive models that turn their data into actionable insights.

- This course aims to equip you with the tools, techniques and skills you will need to lead with data in your organization.
- You will emerge as a competent data analytics capable professional.
- You will learn how companies successfully applied machine & deep learning to diagnose, predict and prescribe performance options that foster corporate performance.
- You will meet the experts and exchange knowledge with them!

Who Should Enroll

For corporate executives and team leads who work with data in the following functions;
Operations | Service Quality Management| Human Resources | Finance & Accounting | Internal Audits & Quality Assurance | Strategy & Strategic Planning | Performance Management |Business Process Management

What You Will Learn

Attendees will leave with an understanding of the most popular algorithms, including classical regression, decision trees, nearest neighbors, and neural networks, as well as breakthrough ensemble methods such as bagging, boosting, and random forests.

This workshop will also cover useful ways to visualize, select, reduce, and engineer features – such as principal components and projection pursuit. Participants will learn how the essential resampling techniques of cross-validation and bootstrapping make your models robust and reliable.

You will also learn from stories of real-world applications, highlighting mistakes to avoid.

If you'd like to become a 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.

What you will learn:
- The tremendous value of learning from data
- How to create valuable predictive models with machine learning for your business
- Best Practices, with real-world stories of what happens when things go wrong

Register For This Event

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Director, Programs- Nigeria
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Phone: +234 81 888 22331

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Course Content

This course includes a required participant preparation ahead of the 5-day in-person session. The 5-day in-person class features 9 modules of Interactive discussions and presentations covering the following topics:

Program Pre-Read & Prep: Introduction to Business Analytics and data-driven Decision Making

Module 1:
 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:
 Predictive Analytics: Making Predictions Using Data Choose the right tool for decision-making to create future business strategies and determine the kinds of predictions you can make to create future strategies.

Module 4:
 Predictive and Prescriptive Analytics: Application and Toolkit Apply optimization models to specific business challenges with low uncertainty and determine the most favorable outcome for your business.

Module 5:
 Predictive Analytics: Using Data to Predict Employee Performance Use data analytics to derive insights into the key components of the staffing cycle for your business — hiring, internal mobility, and attrition.

Module 6:
 Prescriptive Analytics: Providing Recommendations to Change Behavior Write prescriptions for data-driven decision-making for your organization using optimization models.

Module 7:
 Prescriptive Analytics: Determining the Most Favorable Outcomes Determine the most favorable outcome for a business decision using decision trees in conjunction with optimization and simulation.

Module8:
 Application of Analytics for Business Explain important components of different use cases of analytics in business and create a plan to put data 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 reinform 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 organizes 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

COURSE LENGTH
In-Person: 5 Days

CLASS SIZE
Under 35 Persons

HANDS ON
50% Component

EFFORT
3 – 5 hours per week

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)

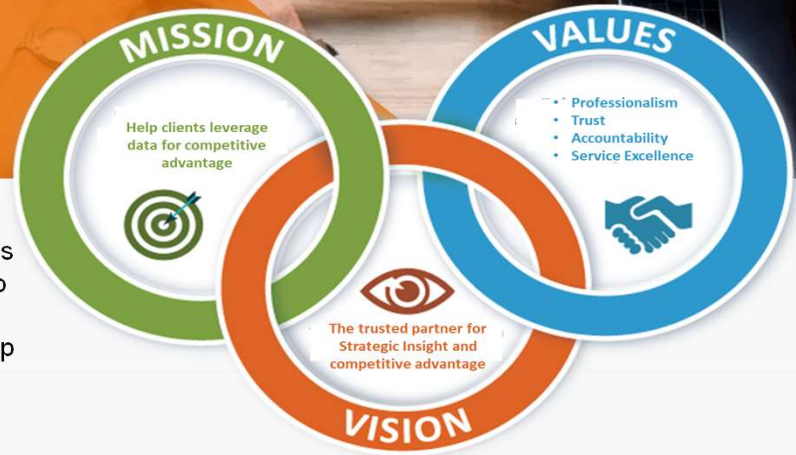**PROJECT LENGTH**
Virtual Bootcamp : 7 Weeks

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

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

About Prognoz.ai

MISSION
Help clients leverage data for competitive advantage

VALUES
- Professionalism
- Trust
- Accountability
- Service Excellence

VISION
The trusted partner for Strategic Insight and competitive advantage

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 SERVICE
- Strategy
- Performance Management
- Predictive Modeling
- Data Analytics
- Service Quality Mgt

Our Clients

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

MINISTRY OF HEALTH-ETHIOPIA
Implementing a full cycle strategy and performance management system for primary healthcare management and inclusion

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

FirstEnergy
Implemented a full cycle performance management system with predictive modeling

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

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

BRIDGESTONE
Implemented a Data Analytics and predictive modeling for performance anomaly detection

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