PwC Business School

PwC Data & Analytics Academy Curriculum

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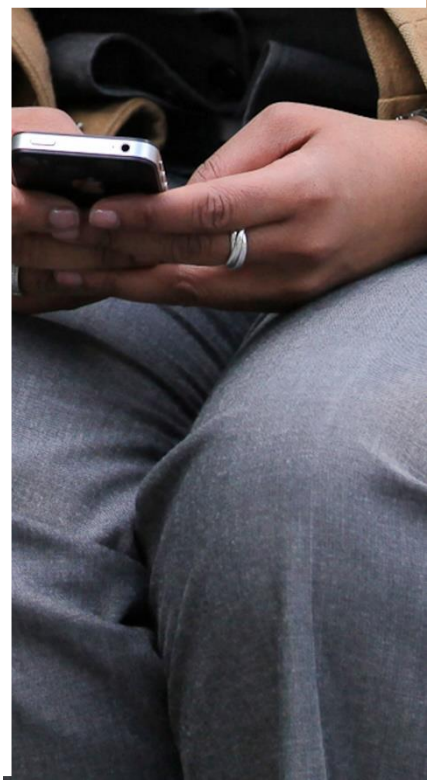

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Introduction

PwC's Data Analytics Academy provides a range of big data training designed to help organizations enable new and existing internal resources to make the most of key data science tools and platforms.

Data Science courses are designed to deliver the basic requirement for any data scientist and big data analysts to make business impact. The courses cover core data science programming tools and applications to entrench the necessary background knowledge.

The training sessions are delivered in comfortable conference room at direct serene locations across the country and around the world. Training course participants should be reasonably proficient in Excel and are also required to bring their own machines (laptops) and install the necessary tools in advance of any of the courses.

PwC D&A Academy programs offer:

1. Hands-on, in-person training.
2. Printed training material.
3. Morning Snacks, Lunch, Afternoon Snacks and Refreshments.
4. Guaranteed small class size. The programs are confirmed with a minimum of ten (10) participants and sealed at a maximum of twenty (20) participants. With such small class sizes there will be plenty of time to ask questions and receive personal attention from the faculties.
5. A highly consultative engagement. There will be plenty of time to discuss your specific projects and learning objective to provide immediate return on investments upon completion of any of the programs.

Data Science for Business Professionals

01

Course Overview

In this complex, digital world, clients want help to understand their data to drive greater insight, improved performance and competitiveness. The course will introduce participants to the important techniques and methods to become more efficient in delivering their daily objectives and also improve their work ethics.

PwC's Data & Analytics Academy course for business professionals is designed for:

- Graduate Trainees
- Data Analysts
- Business Analysts
- Professionals looking to change career path

Course Modules

Module 1

Data Science for Business Professionals (Beginners) - DSBP I

- General introduction to PowerBI
- Connecting to multiple data sources
- Core data visualization concepts
- Introduction to DAX and use of measures.

Pre-requisites
N/A

Fee
N100,000

Duration
3 days

Date
June 29 - July 1
August 3 - August 5
October 5 - October 7
November 30 - Dec. 2

Time
10am - 2pm daily

Module 2

Data Science for Business Professionals (Intermediate) - DSBP II

- Data modelling and preparation
- Advanced DAX

Pre-requisites
DSBP I

Fee
N100,000

Duration
2 days

Date
July 6 - July 7
August 31 - September 2
Nov. 2 - Nov. 3

Time
10am - 2pm daily

Module 3

Data Science for Business Professionals (Advanced) - DSBP III

- R
- Python scripting in PowerBI
- Advanced DAX

Pre-requisites
DSBP I & II

Fee
N100,000

Duration
3 days

Date
August 5 - August 7
Sept. 7 – Sept. 9
October 7 - October 9
Dec. 2 - Dec. 4

Time
10am - 2pm daily

Data Science for Beginners

02

Course Overview

In this complex, digital world, clients want help to understand their data to drive greater insight, improved performance and competitiveness. The course will introduce participants to the important techniques and methods used by data scientists.

PwC's Data & Analytics Academy course for beginners is designed for:

- Graduate Trainees
- Data Analysts
- Business Analysts
- Professionals looking to change career path

Course Modules

Module 1

Data Science for Beginners - DSB I

- Introduction to R/Python
- Introduction to model building and Regression analysis

Pre-requisites
DSBP I & III

Fee
N100,000

Duration
3 days

Date
July 6 - July 8
August 17 - August 19
October 19 - October 21
Dec. 14 - Dec. 16

Time
10am - 2pm daily

Module 2

Data Science for Beginners - DSB II

- Introduction to Statistical Inference
- Intermediate regression analysis
- managing features/feature engineering

Pre-requisites
DSB I

Fee
N100,000

Duration
2 days

Date
July 20 - July 21
Sept. 14 - Sept. 15
Nov. 14 - Nov. 15

Time
10am - 2pm daily

Module 3

Data Science for Beginners - DSB III

- Advanced regression analysis
- Introduction to Time Series Analysis
- Visualization of Model results using PowerBI

Pre-requisites
DSB I & II

Fee
N100,000

Duration
3 days

Date
July 13 - July 15
August 19 - August 21
October 21 - October 23
Nov. 25 - Nov. 27
Dec. 16 - Dec. 18

Time
10am - 2pm daily

Data Science for Intermediate

03

Course Overview

Becoming a senior data scientist takes more than the understanding of basic skills like statistics and programming in various languages. The need to develop one area of technical analytic expertise (e.g. machine learning), while being conversant in many others is very critical. This is the major objective of this course.

By the end of this intermediate data science course, you'll be ready to:

- Build data solutions that integrate with other systems.
- Implement advanced data science concepts like machine learning and inferential statistics to address critical business problems and influence corporate decision making.
- Participate successfully in data science competitions.

Course Modules

Module 1

Data Science for Intermediate - DSI I

- Advanced Regression Analysis
- Decision Tree
- Cluster Analysis with practical use cases

Pre-requisites
DSB I, II, III

Fee
N100,000

Duration
2 days

Date
July 29 - July 30
Sept. 21 - Sept. 22
Dec. 7 - Dec. 8

Time
10am - 2pm daily

Module 2

Data Science for Intermediate - DSI II

- Time Series Analysis
- Principal Component Analysis
- Anomaly Detection
- Random Forest

Pre-requisites
DSI I

Fee
N100,000

Duration
2 days

Date
August 10 - August 11
Sept. 28 - Sept. 29
Nov. 5 - Nov. 6
Dec. 10 - Dec. 11

Time
10am - 2pm daily

Module 3

Data Science for Intermediate - DSI III

- Text Mining
- Naïve Bayes
- Support Vector Machine
- Parrallel Computing in R

Pre-requisites
DSI II

Fee
N100,000

Duration
2 days

Date
August 13 - August 14
October 1 - October 2
Nov. 9 - Nov. 10

Time
10am - 2pm daily

Data Science for HR Professionals

04

Course Overview

Analyzing HR data to gain insights on workforce, policies and practices can ultimately inform more evidence-based decision making. This course delivers the basic requirements for HR professionals and aspiring HR analysts to make business impact in three days. It covers the core concepts of analytics and reporting with introduction to the use of a visualization tool (PowerBi) to entrench the necessary background Knowledge.

PwC's Data & Analytics Academy course for HR professionals is designed for:

- Human Resource Professionals & Consultants
- HR Analysts

Course Modules

Module 1

Data Science for HR Professionals I

- Introduction to HR Analytics
- Introduction to Data Analysis and working with HR data
- Data Cleaning and HR Metrics
- Data Analysis with HR data
- Introduction to Visualization

Pre-requisites
N/A

Fee
N80,000

Duration
2 days

Date
June 29 - June 30
August 11 – August 12
October 5 - Oct0ber 6
Nov. 30 - December 1

Time
10am - 2pm daily

Module 2

Data Science for HR Professionals II

- Data Visualization and Reporting using HR Data

Pre-requisites
DSHRP I

Fee
N80,000

Duration
2 days

Date
July 6 - July 7
August 17 - August 18
October 19 - October 20
Dec. 14 - Dec. 15

Time
10am - 2pm daily

Module 3

Intermediate HR Analytics - DSHRP II

- Building advanced analytics models for HR: Identifying drivers of employee engagement and other employee performance drivers

Pre-requisites
DSB I and DSHRP I

Fee
N100,000

Duration
3 days

Date
July 28 - July 30
Sept. 21 - Sept. 23
Dec. 6 - Dec. 8

Time
10am - 2pm daily

Module 4

Advanced HR Analytics - DSHRP III

- Building predictive models for HR:
- Identify drivers of employee attrition
- Predict employee attrition
- Identify the optimal recruitment channels, etc

Pre-requisites
DSHRP II

Fee
N100,000

Duration
3 days

Date
August 13 - August 15
October 1 - October 3
Nov. 9 - Nov. 11

Time
10am - 2pm daily

Data Science for Public Sector

05

Course Overview

The public sector makes numerous decisions daily. However, the public sector has not fully taken advantage of the prospects and beauty of analytics. This course will empower decision makers in the public sector on how to make reports, analyze data and make evidence-based decisions.

PwC's Data & Analytics Academy course for public sector is designed for:

- Data Analysts
- Public Sector Staff / Personnel
- Decision makers in the Public Sector

Course Modules

Module 1

Data Science for Public Sector Beginners - DSP I

- General introduction to Data Science and its applications in Public Sector
- General introduction to PowerBI
- Connecting to multiple data sources
- Core data visualization concepts

Pre-requisites
N/A

Fee
N100,000

Duration
3 days

Date
July 6 - July 8
August 17 - August 19
October 19 - October 21
Dec. 14 - Dec. 16

Time
10am - 2pm daily

Module 2

Data Science for Public Sector Intermediate - DSP II

- Data modelling and preparation
- Advanced DAX

Pre-requisites
DSP I

Fee
N100,000

Duration
2 days

Date
July 20 - July 21
Sept. 14 - Sept. 15
Nov. 16 - Nov. 17

Time
10am - 2pm daily

Module 3

Data Science for Public Sector Advanced - DSP III

- R
- Python scripting in PowerBI
- Advanced DAX

Pre-requisites
DSP I & II

Fee
N100,000

Duration
3 days

Date
July 13 - July 15
August 19 - August 21
October 21 - October 23
Nov. 25 - Nov. 27
Dec. 16 – Dec. 18

Time
10am - 2pm daily

Contacts

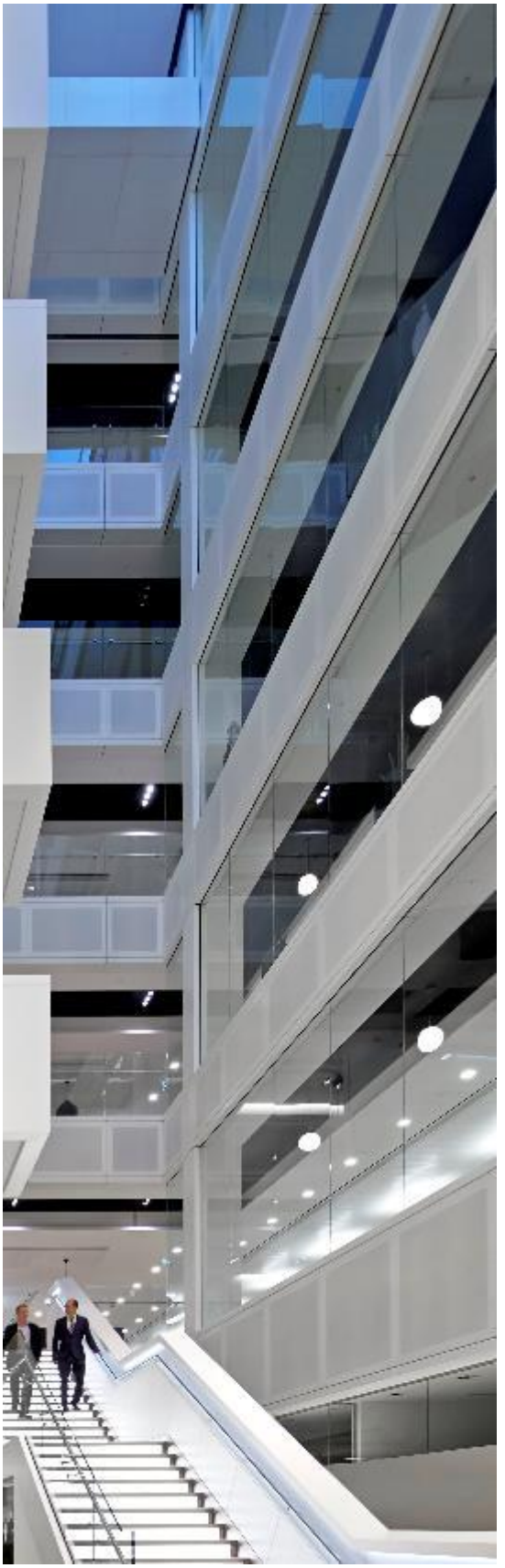
Femi Osinubi
Partner & Leader
Data and Analytics, PwC West Africa
+234 813 058 8959
femi.osinubi@pwc.com

Raphael Yemitan, Ph.D
Senior Manager
Data and Analytics, PwC West Africa
+234 803 200 3058
raphael.yemitan@pwc.com

Pelumi Oguntunde, Ph.D
Manager
Data and Analytics, PwC West Africa
+234 806 036 9637
pelumi.oguntunde@pwc.com

Maritha Agwu, ACIPM
Senior Associate
Data and Analytics, PwC West Africa
+234 803 598 9508
Maritha.agwu@pwc.com

David Alade
Associate
Data and Analytics, PwC West Africa
+234 703 722 5469
David.alade@pwc.com



PwC Nigeria offices

Lagos
Head Office
Landmark Towers
5B Water Corporation Road
Victoria Island
P.O.Box 2419
Lagos, Nigeria
T: +234 1 271 1700
F: +234 1 270 3108

Abuja
Second Floor, Muktar El-Yakub's Place
Plot 1129 Zakariya Maimalari Street
Opposite National Defence College
(War College)
Central Business District, Abuja
T: +234 9 291 9301 - 4, 291 4588
F: +234 9 461 3747

Annexe
17 Chief Yesufu Abiodun Way
Oniru Estate
Victoria Island, Lagos
T: +234 1 271 1700
F: +234 1 270 3108

Port-Harcourt
35 Woji Road
GRA Phase II
Port-Harcourt, Rivers
T: +234 84 571 513
F: +234 84 237 959

You can reach us directly via

dataanalytics.academy@ng.pwc.com

About PwC

At PwC, our purpose is to build trust in society and solve important problems. We're a network of firms in 157 countries with more than 276,000 people who are committed to delivering quality in assurance, advisory and tax services. Find out more by visiting us at www.pwc.com/ng

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