



# 14 DAYS DATA SCIENCE WORKSHOP

*Cleaning/Analysis | Visualization | Modelling*

**Date: 15<sup>th</sup> – 29<sup>th</sup> November, 2023 Time: 8:00pm – 9:00pm Daily**

# ABOUT THE BOOTCAMP

An 11-day data science workshop will be held on Google Meet from 15th to 29<sup>th</sup> November, 2023. Experienced data science professionals will teach the workshop and will cover the fundamentals of data science. participants in the workshop will learn the skills they need to start a career in data science. They will also gain hands-on experience with data science tools and technologies. In addition, participants will work on a real-world data science project.



# CERTIFICATION

Certificate of participation will be issued to all participant that have 80% attendance





**Delivery Method:** Lectures & Hands-on Practice

**Entry Requirements:**






- i. Good Knowledge of English
- ii. No prior experience in data science or programming is required.
- iii. Participants should have a basic understanding of computers and the internet.

**Duration:** 14 days (1hour daily)

**BOOTCAMP  
DETAILS**





-  Introduction to Data Science
-  Basic Excel Concepts
-  Basic Analysis with Python
-  Introduction to Data Modeling
-  Capstone Project

# COURSE OUTLINE



# COURSE OUTLINE BREAKDOWN

## **MODULE 1: INTRODUCTION TO DATA SCIENCE**

- i. What is data science?
- ii. The data science process
- iii. Data science tools and technologies
- iv. Data science applications

## **MODULE 2: BASIC EXCEL CONCEPTS**

- i. Excel basics (navigation, formulas, functions)
- ii. Data manipulation (sorting, filtering, cleaning)
- iii. Data visualization (charts and graphs)



# COURSE OUTLINE BREAKDOWN

## **MODULE 3: BASIC ANALYSIS WITH PYTHON**

- i. Python programming basics
- ii. Data science libraries in Python (NumPy, Pandas, Matplotlib)
- iii. Exploratory data analysis
- iv. Data cleaning and preprocessing

## **MODULE 4: INTRODUCTION TO DATA MODELING**

- i. Machine learning basics
- ii. Regression models
- iii. Classification models
- iv. Clustering models

## **MODULE 5: CAPSTONE PROJECT**



# COURSE SCHEDULE

**Day 1:** Onboarding Session / Introduction to data science

**Day 2:** Basic Excel concepts

**Day 3:** Data manipulation in Excel

**Day 4:** Data visualization in Excel

**Day 5:** Python programming basics

**Day 6:** Data science libraries in Python (NumPy, Pandas, Matplotlib)

**Day 7:** Exploratory data analysis with Python



# COURSE SCHEDULE

**Day 8:** Data cleaning and preprocessing with Python

**Day 9:** Machine learning basics

**Day 10:** Regression models with Python

**Day 11:** Classification and clustering models with Python (1 hour)

**Day 11 – 14 :** Data Science Capstone Project

December 1<sup>st</sup>, 2023 Project Presentation and Graduation



# Facilitators



**Rahama Sani**

Mathematician / Data Analyst



**Oladele Yusuf**

Data Scientist  
Machine Learning Engineer



**Ugbesia Precious**

Data Analyst



# THANK YOU



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