

# 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





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.





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.

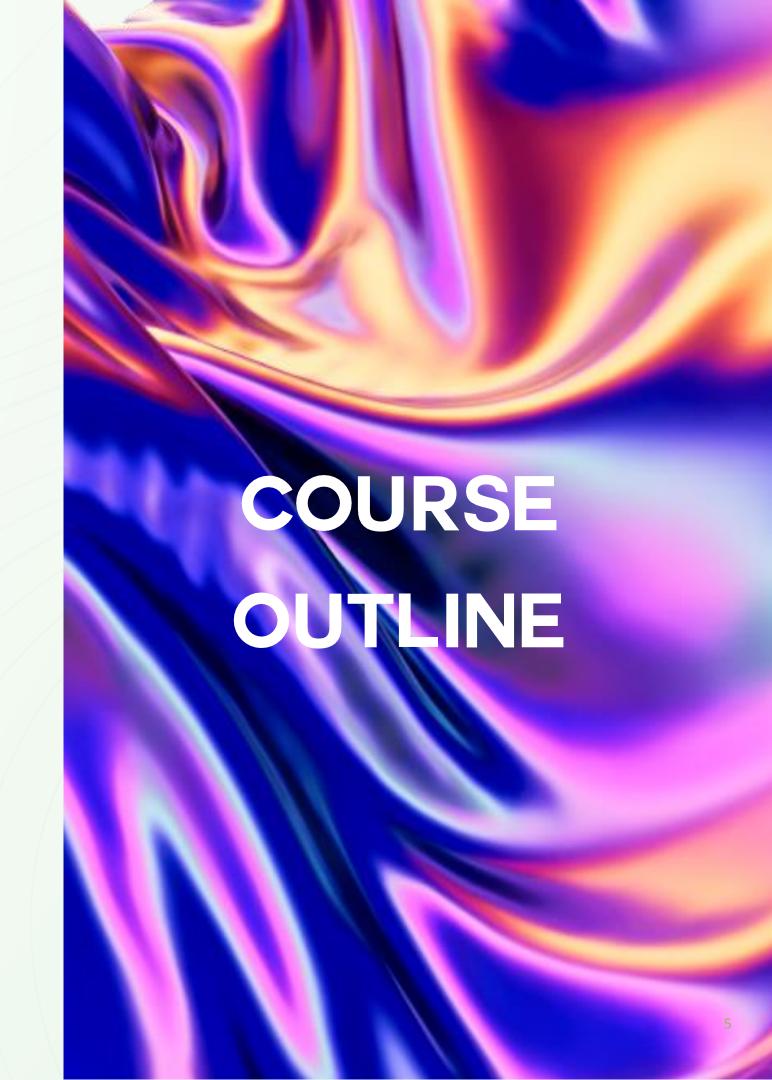
Duration: 14 days (1hour daily)





- Introduction to Data Science
- Basic Excel Concepts
- Basic Analysis with Python

- Introduction to Data Modeling
- Capstone Project







#### **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)
- ii. Data visualization (charts and graphs)





#### **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**





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





Day 8: Data cleaning and preprocessing with Python

Day 9: Machine learning basics

Day 10: Regression models with Python

<u>Day 11</u>: Classification and clustering models with Python (1 hour)

<u>Day 11 – 14</u>: Data Science Capstone Project

December 1st, 2023 Project Presentation and Graduation

## Facilitators



Rahama Sani Mathematician / Data Analyst



Oladele Yusuf

Data Scientist Machine Learning Engineer



**Ugbesia Precious** 

Data Analyst

## THANKYOU









