

AZUBI AFRICA

Data Analytics Program Calendar

Data Analytics Timetable

Week	Module / Assignment	Status	Date/Time (UTC)	Key Concepts/ Key Exercises
1	Basic Excel and Introduction to Statistics	Open	Monday 31 st October 00:00 am	<ul style="list-style-type: none"> - Excel Basics - Working with Excel Functions - Pivot Tables - Basic Statistics
1	Peer Programming Project	Due	Sunday 6 th November 23:59	<ul style="list-style-type: none"> - Grocery Store Data Analysis
1	Graded Quiz	Due	Sunday 6 th November 23:59	<ul style="list-style-type: none"> - This is a Graded Quiz to assess your understanding of the concepts covered
1	Individual Project	Due	Monday 7 th November 23:59	<ul style="list-style-type: none"> - Bike Sale Analysis
2	Hypothesis Testing and Data Visualization	Open	Monday 7 th November 00:00 am	<ul style="list-style-type: none"> - Hypothesis Testing - Correlation Analysis - Data Visualization with Excel
2	Peer Programming Project	Due	Sunday 13 th November 23:59	<ul style="list-style-type: none"> - Stacked Bar Chart Data Viz
2	Graded Quiz	Due	Sunday 13 th November 23:59	<ul style="list-style-type: none"> - This is a Graded Quiz to assess your understanding of the concepts covered
2	Individual Project	Due	Monday 14 th November 23:59	<ul style="list-style-type: none"> - National Park Visualization

Learning requirements: Participants are required to submit all assessments by their due date, attend all live sessions, and take responsibility for their learning.

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3	Power Query and Intro. To Power BI	Open	Monday 14 th November 00:00 am	<ul style="list-style-type: none"> - Introduction to Power Query - Building Interactive Dashboards with Power BI
3	Peer Programming Project	Due	Sunday 20 th November 23:59	<ul style="list-style-type: none"> - Stacked Bar Chart Data Viz
3	Graded Quiz	Due	Sunday 20 th November 23:59	<ul style="list-style-type: none"> - This is a Graded Quiz to assess your understanding of the concepts covered
3	Individual Project	Due	Monday 21 st November 23:59	<ul style="list-style-type: none"> - Visualize LinkedIn Data with Power BI
4	Databases	Open	Monday 21 st November 00:00 am	<ul style="list-style-type: none"> - Introduction to Databases - SQL vs NoSQL
4	Peer Programming Project	Due	Sunday 27 th November 23:59	<ul style="list-style-type: none"> - Money Transfer Business
4	Graded Quiz	Due	Sunday 27 th November 23:59	<ul style="list-style-type: none"> - This is a Graded Quiz to assess your understanding of the concepts covered
4	Individual Project	Due	Monday 28 th November 23:59	<ul style="list-style-type: none"> - Extracting Data from databases
5	Introduction to Python	Open	Monday 28 th November 00:00 am	<ul style="list-style-type: none"> - Python Fundamentals - Conditionals with Python

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5	Peer Programming Project	Due	Sunday 4 th December 23:59	- Tip Calculator
5	Graded Quiz	Due	Sunday 4 th December 23:59	- This is a Graded Quiz to assess your understanding of the concepts covered
5	Individual Project	Due	Monday 5 th December 23:59	- Mortgage Calculator
6	Data Structures in Python	Open	Monday 5 th December 00:00 am	- Deep Dive into Loops, Tuples, and Dictionaries - For and while loops in Python
6	Peer Programming Project	Due	Sunday 11 th December 23:59	- Store Sales Review
6	Graded Quiz	Due	Sunday 11 th December 23:59	- This is a Graded Quiz to assess your understanding of the concepts covered
6	Individual Project	Due	Monday 12 th December 23:59	- Sales and Operation Planning
7	Modularizing Python Programs	Open	Monday 12 th December 00:00 am	- Modularize your code by creating functions - Working with in-built and third-party python libraries
7	Peer Programming Project	Due	Sunday 18 th December 23:59	- Caesar's Cipher Encryption

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7	Graded Quiz	Due	Sunday 18 th December 23:59	- This is a Graded Quiz to assess your understanding of the concepts covered
7	Individual Project	Due	Monday 19 th December 23:59	- Caesar's Cipher Decryption
8	Working with Python Libraries	Open	Monday 9 th January 00:00 am	- NumPy - Pandas - Working with Data frames - Boolean Indexing and Filtering
8	Peer Programming Project	Due	Sunday 15 th January 23:59	- Create a Data frame
8	Graded Quiz	Due	Sunday 15 th January 23:59	- This is a Graded Quiz to assess your understanding of the concepts covered
8	Individual Project	Due	Monday 16 th January 23:59	- Analyze vehicle sales data with NumPy
9	A Deeper Dive into Python Libraries and Data Visualization with Matplotlib	Open	Monday 16 th January 00:00	- Grouping and Aggregating with Pandas - Working with Date and Time Series Data - Visualization with Matplotlib (Scatter Plot, Histogram, Time Series Plot, Stack Plot)
9	Peer Programming Project	Due	Sunday, 22 nd January 23:59	- Perform Data Cleaning on Parking Tickets Data.

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9	Graded Quiz	Due	Sunday, 22 nd January 23:59	- This is a Graded Quiz to assess your understanding of the concepts covered
9	Individual Project	Due	Monday, 23 rd January 23:59	- Analyze Tourist Spending Data
10	Introduction to Machine Learning	Open	Monday, 23 rd January 00:00 am	- Types of Machine Learning - Machine Learning Algorithms - CRISP-DM
10	Peer Programming Project	Due	Sunday 29 th January 23:59	- Prepare a Report
10	Graded Quiz	Due	Sunday 29 th January 23:59	- This is a Graded Quiz to assess your understanding of the concepts covered
10	Individual Project	Due	Monday 30 th January 23:59	-
11	CRISP-DM Framework	Open	Monday 30 th January 00:00 am	- Business Understanding - Data Understanding - Data Preparation - Modelling - Evaluation - Deployment
11	Peer Programming Project	Due	Sunday 5 th February 23:59	- Evaluating a Model
11	Graded Quiz	Due	Sunday 5 th February 23:59	- This is a Graded Quiz to assess your understanding of the concepts covered

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11	Individual Project	Due	Monday 6 th February 23:59	- Stochastic Gradient Descent Model
12	CRISP-DM Framework	Open	Monday 6 th February 00:00 am	<ul style="list-style-type: none"> - Business Understanding - Data Understanding - Data Preparation - Modelling - Evaluation - Deployment
12	Peer Programming Project	Due	Sunday 12 th February 23:59	- Shifting Images
12	Graded Quiz	Due	Sunday 12 th February 23:59	- This is a Graded Quiz to assess your understanding of the concepts covered
12	Individual Project	Due	Monday 13 th February 23:59	- Improving the Stochastic Gradient Descent Model