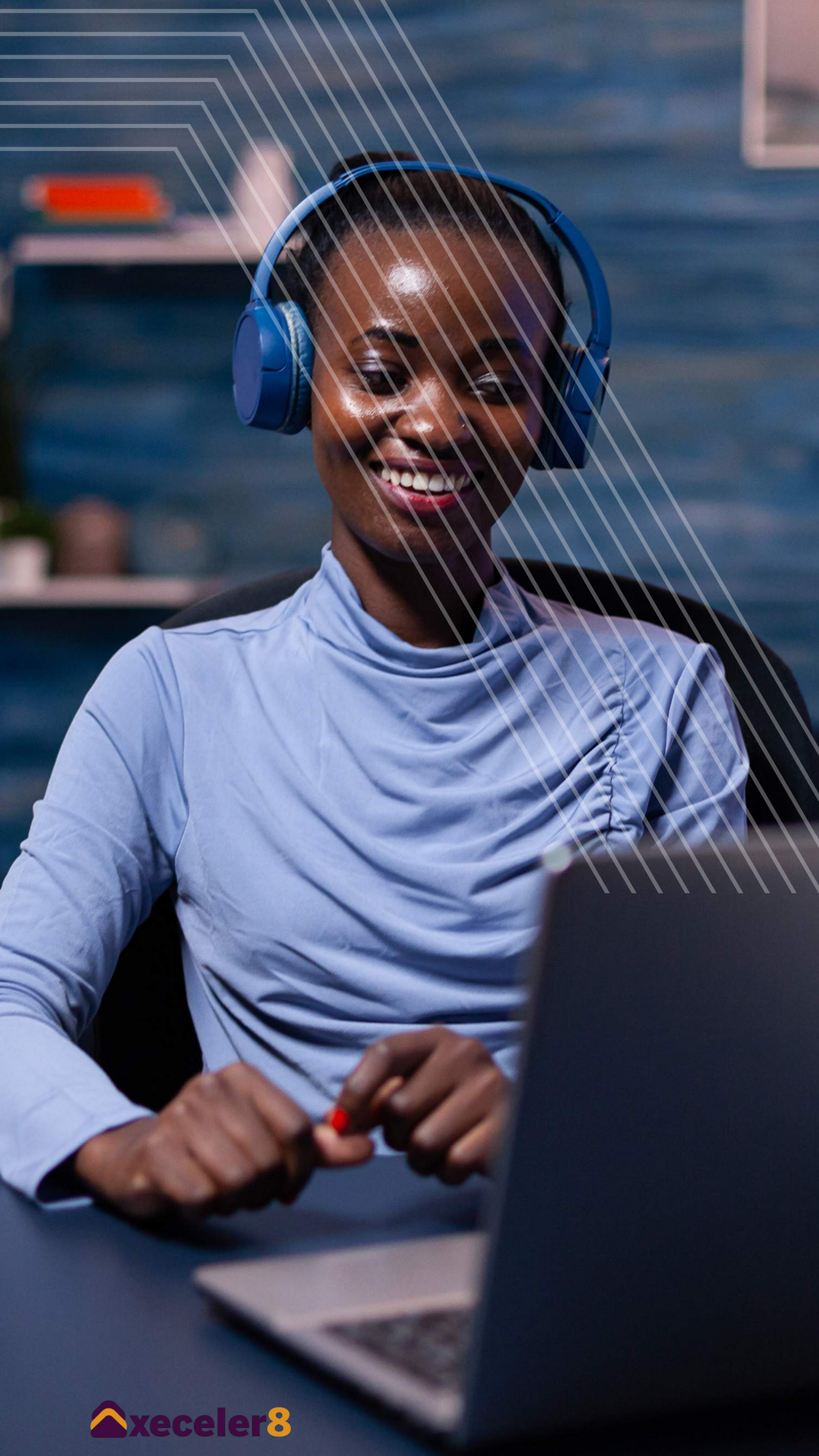




Python Training Curriculum



Chapter 1: Basic Python Syntax

- Hello World
- Executing Python Codes
- Data Types
 - **Lists**
 - **Tuples**
 - **Dictionaries**
- Conditionals and Loops
 - **IF/ELSE Statements**
 - **For Loops**
 - **While Loops**
- Python Functions

Chapter 2: Data Exploration and Cleaning with Pandas

- Reading files with Pandas (CSV, Excel, Txt)
- Descriptive Statistics on a Pandas Object
- Data Exploration
- Group by and Aggregations
- Handling Missing Values
- Correlation

Chapter 3: Data Visualization

- Introduction to Seaborn
- Bubble charts
- Heatmaps
- Box Plots
- Histograms
- Customizing Visualization

Chapter 4: Supervised Machine Learning with Python

- Data Transformation
 - Scaling**
 - Normalization**
 - Outlier detection**
- Regression
 - Linear Regression**
 - Non-linear Regression**
 - Model evaluation methods**
 - Decision Tree Algorithms**
 - Performance Evaluation**
- Classification
 - K-Nearest Neighbour**
 - Decision Trees**
 - Logistic Regression**
 - Support Vector Machines**
 - Model Evaluation**
- Introduction to Unsupervised Learning
- K-Means Clustering
- Hierarchical Clustering

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