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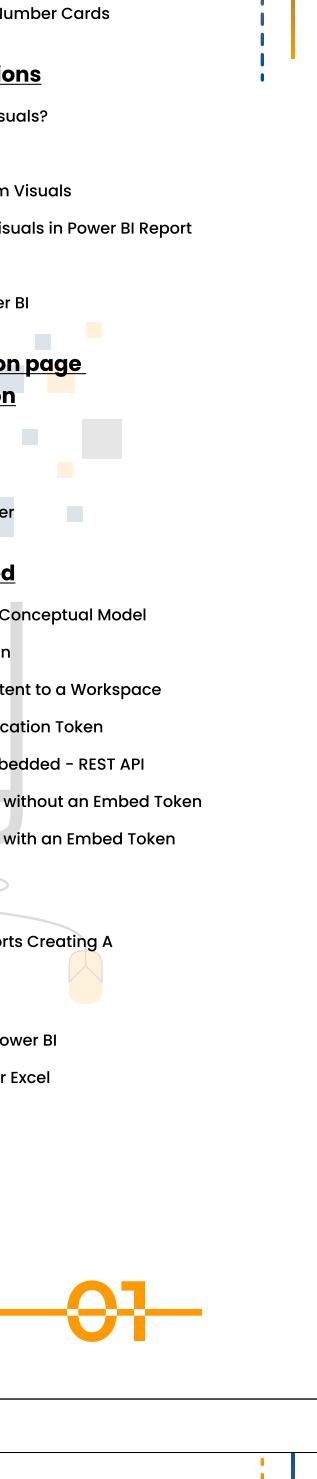


Data Analytics course Syllabus

COURSE CONTENTS

- Introduction To Python
- Program Flow Control
- List, Ranges, Dictionaries, Tuples and Sets in Python
- File Input and Output in Python
- Object Oriented Programming in Python
- Exception Handling in Python
- Testing and Debugging Python Programs
- Database Handling in Python Program
- Multithreading in Python Programs
- Python List Operations
- Types of errors
- Decorators in python
- Generators in python
- Install Tableau Desktop 2022
- Understand Types of Joins and how they work
- Export Results from Tableau into Power point, Word, and other software
- Combine Sets into more Sets
- DATA BASE
- Introduction to Data warehouse
- Power BI desktop
- data analysis expressions (DAX)
- Data visualization
- custom visualizations
- Power BI Integration page, And Administration
- Power BI Embedded
- Power BI Q&A

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- Views



Python

An Introduction To Python

- What is Python And history Of Python?
- Features Of Python.
- Installation and Working with Python.
- Introduction to Python IDE.
- Understanding Python variables.
- Rules for defining Python Variables.
- Python basic Operators.
- Python Identifiers, Keywords and Indentation.
- Understanding Python blocks.
- Importance of Indentation in Python.
- Command line arguments.
- Getting User Input.
- Python Data Types.
- What are Variables?
- Python Core Objects and Functions.

Program Flow Control

- Conditional Blocks Using If, Else And Else if
- For Loops In Python.
- For loop using ranges, string, list and dictionaries.
- Use of while loops in python.
- Loop manipulation using pass, continue, break and else.
- Difference between pass vs Continue vs break
- Programming using python conditional and loops block.

Object Oriented Programming in Python

- OOPS Concepts.
- Concept Of Class, Object And Instances.
- Constructor, class attributes and destructors.
- Accessing attributes, Built-In Class Attributes.
- Inheritance.
- Types of inheritance
- Polymorphism (overlapping and overloading operators).
- Duck typing.
- Abstraction.
- Abstract class.
- Encapsulation.
- Private & Protected attributes.

Exception Handling in Python

- Exceptions Handling Introduction.

- Avoiding Code Break Using Exception Handling.

- Handling various exceptions using try.....except.....else.

- Multiple except blocks.

- Try-finally clause.

- Try-finally with return statement.

- Argument of an Exception and create self-exception class

- Raising an exceptions, User-Defined Exceptions.

- Custom Exception Class

- Raising Custom Exception

File Input and Output in Python

- Reading And Writing Text Files.
- Reading Config Files in Python.
- Writing log files in python.
- understanding read functions, (read), (readline), (readlines), (write), (as writelines)
- Writing Binary Files Manually.
- Using Pickle To Write Binary Files.
- Manipulating file pointer using seek.

Testing and Debugging Python Programs

- Debug Python Programs Using Pd Debugger.
- Testing With Python Using Unit Test.
- Assert for debugging.
- Iterable and generator in Python.
- Yielding from the generators.

Database Handling in Python Program

- SQL Database Connection Using Python.

- Install The MySQL DB And Other Packages

- DML and DDL Operations with Databases.

- Performing Transactions.

- Handling Database Errors.

- Disconnection Database.

- Web Scraping.

Multithreading in Python Programs

- What is Multithreading?

- Starting A New Thread.

- Forking threads.

- The Threading Module.

- Synchronizing Threads.

Python List Operations

Types of errors

Decorators in python

Generators in python

MySQL Functions

- String Date And Date Format

- Control Flow Functions

- Calculation Functions

- Aggregate Functions

- String Functions

- Sort Data

- Rank Data

- Save A Query

- Execute A Query

- Modify A Saved Query

Views

- Create A Simple View

- With Check Option

Joins

- Inner Join

- Left Join

- Full Outer Join

- Self-Join

- Unions

- Except and Intersect

Queries

- Distinct Values

- Top Values

- Subqueries with "In"

- Inline Views

Tables & Queries

- Importing And Exporting Data

- Update Data

Stored Procedures

- Introduction To Stored Procedures

- Changing The Delimiter

- Editing A Stored Procedure

- Variable Scope

- A Data Generating Procedure

Triggers

- Introduction To Triggers

- Validating Triggers

- Triggers and Transactions

User Defined Functions

- Functions Vs Procedures

- User-Defined Functions

MySQL Functions

- Date Functions

- Time Functions

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