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DATA SCIENCE

COURSE CONTENTS

Python

- An 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 Programs
- Multithreading in Python Programs
- Python List Operations
- Types of errors
- Decorators in python
- Generators in python
- Data analytics in python
- Statistics
- Machine learning Algorithm
- Deep Learning
- Machine learning algorithm implementation using Flask.
- Tableau
- LIVE Project - FBS application implementation

My SQL

- Window functions
- DML
- DCL
- TCL
- DDL
- Order by
- Where
- Functions
- Alias
- Group by
- Join

Python

An Introduction To Python
- What is Python And History Of Python?
- Features Of Python.
- Installation and Working with Python.
- Introduction to Python Idle.
- Understanding Python variables.
- Rules for defining Python Variables.
- Python basic Operators.
- Python Arithmetic 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.

List, Ranges, Dictionaries, Tuples and Sets in Python
- Introduction.
- Lists in Python
- Understanding Iterators
- Generators, Comprehensions and cartesian Expressions
- Generators and Yield
- Next and Ranges
- Understanding and Using Ranges?
- Python Dictionaries
- Dictionary manipulation.
- Ordered Dict with types
- Sets
- Python Set Operations

File Input and Output in Python
- Reading And Writing Text Files.
- Reading Config Files in Python.
- Serialization Deserialization.
- Understanding read functions, (read(), (readline), (readlines()) and write() functions.
- Writing Binary Files Serialization.
- Using Pickle to Write Binary Files.
- Manipulating the pointer using seek.

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 (overrepping and overloading operators).
- Duck typing
- Abstraction.
- Abstract class.
- Encapsulation.
- Private & Protected attributes.

Exception Handling in Python
- Exceptions Handling introduction.
- Avoiding Crashes Error using Exception Handling
- Handling various exceptions using try - except, else
- Multiple except blocks.
- Try finally clauses
- 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

Testing and Debugging Python Programs
- Debug Python Programs using Pdf Debugger.
- Testing With Python Using Unit Test.
- Assert for debugging.
- Iterable and generator in Python.
- Feeding from the generators.

Database Handling In Python Programs
- SQL Database Connection Using Python.
- Install The MySQL DB And Other Packages
- DML and DDL Operations with Databases.
- Performing Transactions.
- Handling Database Errors
- Deploying 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

Data analytics in python.
- Pandas
- Numpy
- Matplotlib
- Seaborn
- Statsmodels
- Sqlite
- Scipy
- Scikit learn
- Beautifulsoup
- requests
- 10 real cases on Data analytics(Tips tuble, Stock market, Crimes, etc)

Statistics
- Important Statistical Concepts Used in Data Science
- Difference Between Population And Sample
- Types of variables
- Measures of central tendency
- Measures of variability
- Coefficient of variance
- Residual error
- Sum of squared Errors
- Sum of squared regression
- Sum of square total
- R score value
- Adjusted r-score
- Standard deviation
- Bias - variance
- T test/F- value
- Assumptions of linear regression

Machine learning Algorithm
- Linear Regression
- Polynomial Regression
- Decision tree
- Random forest
- Knn
- Confusion matrix
- Naive Bayes classifiers

Deep Learning
- CNN
- Natural Language Processing using NLTK

Machine learning algorithm implementation using Flask.

Tableau
- Working With Tableau
- Deep Diving With Data And Connection
- Creating charts
- Mapping data in Tableau
- Dashboards and stories

LIVE Project - FBS application Implementation

My SQL

Window Functions
- Over()
- Row_number ()
- Rank ()
- Dense_Rank ()
- Ntile ()
- Lag ()
- Lead ()

DML
- Select
- Insert
- Update
- Delete

DCL
- Grant
- Revoke

TCL
- Commit
- Rollback
- Save point

DDL
- Create
- Drop
- Truncate
- Alter

Order by
- Order By ASC
- Order By DESC
- Inner join
- Left join
- Right join
- Full join

Group by
- Group By Column
- Having

Alias
- AS

Functions
- AVG()
- Sum()
- Count ()
- MIN ()
- MAX ()

Where
- IN / NOT IN / IS / IS NOT / = / <> / >= / <= / BETWEEN / LIKE / OR / AND / NOT / ALL / EXISTS

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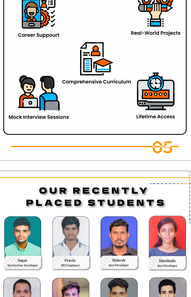

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