# Advanced PYTHON Course Content

## Regular Expressions
- Matching v/s Searching
- Regular Expression Objects
- Match Objects

## Object Oriented Programming
- Introduction to OOP
- Classes and Objects
- Instance methods and data
- Initialization of objects
- Inheritance
- Multiple and Multilevel Inheritance
- Method overriding
- Classes and Types

## Files and Directories
- Reading Files
- Writing Files
- Handling I/O Errors
- Higher level file operations
- File and Directory comparisons

## Exception Handling
- Exception handling basics
- try...except...finally

## Iteration Protocols
- Iterators
- Decorators
- Generators

## Database access
- Concept of Database
- The DB API
- Available Interfaces
- Connecting to a server
- Creating and executing a cursor
- Fetching data
- Parameterized statements

## Data Visualization
- MATPLOTLIB
- M/L Basics

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