



# P2D ITDebuggers Private Limited

## Python for Data Science

### Foundations

#### Basics of Python

Install Python and an IDE. Learn about Python syntax, variables, and basic data types.

#### Control Flow and Functions

Understand if statements, loops, and functions. Practice solving simple problems using control flow and functions.

#### Lists and Tuples

Explore lists and tuples. Learn basic operations on these data structures.

#### Dictionaries and Sets

Understand dictionaries and sets. Practice using these data structures.

### Intermediate Python

#### File Handling

Learn how to read and write files in Python. Explore different file formats (text files, CSV, JSON).

### Advanced Python

#### Exception Handling

Learn about try, except, and finally blocks. Handle exceptions to make your code more robust.

#### Regular Expressions

Understand the basics of regular expressions. Practice using regular expressions in Python.

#### Modules and Packages

Explore how to use modules and create your own packages. Understand the concept of namespaces in Python.

#### Object-Oriented Programming (OOP)

Understand the basics of OOP: classes and objects. Learn about inheritance, encapsulation, and polymorphism.

### GUI (Graphical User Interface)

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