**Python – Key Points**

**Generic:**

**Python Libraries for Data Science**

Python's strength in data science comes from its powerful libraries. Get to know the following key libraries:

***Random***: For generating random test cases while training and testing of data.

***NumPy***: For numerical operations and working with arrays.

***Pandas***: Ideal for data manipulation and analysis.

***Matplotlib and Seaborn***: Used for data visualization.

***Scikit-Learn:*** Essential for machine learning tasks.

**Typecasting:**

1. A float value in a string cannot be directly typecasted to int.

Example:

|  |
| --- |
| * int(“3.14”) |
| Output: Error |

|  |
| --- |
| * int(float(“3.14”)) |
| Output: 3.0 |

**Datatype**:

1. Mutable type
   1. Int
   2. Float
   3. List
   4. Dictionary
2. Immutable types
   1. Strings
   2. Tuples