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# Essential Data Concepts in Python

**Course Name: Python Basics for Data Enthusiasts- Python and Data Science**

**Python Package and Data Structure – Python Data Structures**



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# The Information Age

- **We live in a world full of data**
- **Data is everywhere – from apps to businesses**
- **Handling data efficiently is critical in programming**

# Why Data Structures?

- **Help organize, process, and store data**
- **Enable efficient access and manipulation**
- **Foundation for performing data analysis and programming logic**

# Built-in Data Structures in Python

- **List – Ordered, mutable collection**
- **Tuple – Ordered, immutable collection**
- **Set – Unordered collection of unique elements**

# Summary

- **Python offers built-in tools for efficient data handling**
- **Understanding these structures is essential for any programmer**
- **We'll explore lists, tuples, and sets in more depth next**