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Data Analytics with Python

SHIFTKEY LABS

Week 3

What have you learnt so far? +++

- Variables and Data Types
- Input/Output operations
- Conditional Statements
- Loops
- Functions
- Data Structures (Lists, Dictionaries)

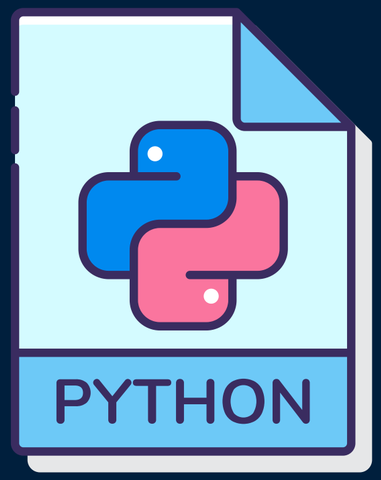
What are you going to learn? +++

- What is Data Analysis?
- How do we get data?
- What do we do with that data?
- Using pandas to make that data useable

pandas

Data Analysis +++

Process of inspecting, cleaning, transforming, and modeling data. To discover useful information, draw conclusions, and support decision-making.



Power BI

How Do We Get Data?

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What Do We Do with That Data?

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1. Data Cleaning & Preprocessing
2. Data Analysis
3. Predictions
4. Reporting & Visualizations

Introduction to pandas

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- Python library
- Helpful in
  - Importing data
  - Organizing data
  - Processing data
- Widely used in finance, marketing, research, and machine learning for data cleaning, statistical analysis, and building predictive models.
- Easy Data Handling: Offers intuitive methods to clean, filter, and transform data.
- Data Analysis & Manipulation: Supports operations like grouping, merging, and aggregating data.