Introduction to Pandas

Pandas is a data analysis and manipulation tool built on top of Python.

Powerful Data Organization
Pandas helps organize data by putting it in tabular form. This makes the data easier to manipulate and analyze using Pandas functions.

Industry Standard Library
It is crucial to know Pandas for data manipulation tasks in industry and is one of the most widely-used Python libraries.

Necessary Foundation
Pandas provides the foundation for more complicated applications such as machine learning and NLP.
**Pandas Features**

**Dataframes**
- Two-dimensional data structure with columns of potentially different types.

**Data Selection**
- Inspects specific sections of a dataframe and selects subsets to analyze.

**Data Cleaning**
- Handles null values, changes indices, and renames columns, among other functions.

**Grouping and Sorting**
- Groups, sorts, and filters data by various different parameters.

**Statistics**
- Basic statistics such as mean, median, correlation, standard deviation, etc.

**Visualizations**
- Plots data using various graphs such as bar charts, scatter plots, and pie charts.
Pandas Demo

Demo

DATA X

Pandas Introduction

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References / Sources: Includes examples from Wes McKinney and the 10 min intro to Pandas

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Topics:
1. Dataframe creation
2. Reading data in DataFrames
3. Data Manipulation