Pandas Cheat Sheet: Attributes vs. Methods

DataFrame Attributes

Attribute/Method	Description
df.shape	Dimensions as (rows, columns) - Tuple
df.size	Total number of elements (rows × columns) - Int
df.columns	Column labels - Index object
df.index	Row index labels - Index object
df.dtypes	Data types of each column - Series
df.ndim	Number of dimensions (should be 2) - Int
df.values	Numpy array of values - ndarray

DataFrame Methods

Attribute/Method	Description
df.head(n)	First n rows - DataFrame
df.tail(n)	Last n rows - DataFrame
df.info()	Structure summary - Console Output
df.describe()	Stats for numeric columns - DataFrame
df.count()	Non-null values per column - Series
df.mean()	Mean per column - Series
df.sum()	Sum per column - Series
df.isnull()	Missing value mask - DataFrame
df.drop(...)	Drop rows or columns - DataFrame
df.sort_values(...)	Sort by column(s) - DataFrame
df.groupby(...)	Group by one or more columns - GroupBy object
df.fillna(...)	Fill missing values - DataFrame
df.apply(...)	Apply function row/column-wise - DataFrame/Series

Series Attributes

Attribute/Method	Description
s.shape	Number of elements - Tuple
s.size	Total number of elements - Int
s.index	Index labels - Index object
s.dtype	Data type - dtype

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s.ndim	Number of dimensions (should be 1) - Int
s.values	Numpy array of values - ndarray
s.name	Name of the Series - str or None

Series Methods

Attribute/Method	Description
s.head(n)	First n elements - Series
s.tail(n)	Last n elements - Series
s.describe()	Summary stats - Series
s.count()	Non-null value count - Int
s.mean()	Mean of values - Float
s.sum()	Sum of values - Numeric
s.isnull()	Missing value mask - Series
s.sort_values()	Sort values - Series
s.dropna()	Remove missing values - Series
s.fillna(...)	Fill missing values - Series
s.apply(...)	Apply function to each element - Series
s.value_counts()	Frequency of unique values - Series
s.idxmax()	Index of maximum value - Index label
s.idxmin()	Index of minimum value - Index label