

Creating a Pandas Series

Convert an array to a Series in pandas.	<code>data = np.array([1,2,3,4,5,6])</code> <code>num_arr_series = pd.Series(data)</code>
Convert a list to a Series in pandas.	<code>data = [25, 50, 75, 100]</code> <code>first_series = pd.Series(data)</code>
Convert a dictionary to a Series in pandas.	<code>first_dict = { "name1": "Paras", "name2": "Luke", "name3": "Sam" }</code> <code>dict_series = pd.Series(first_dict)</code>

Aggregation Methods

<code>.sum()</code>	: Returns the result of adding all values in a Series together. <code>.product</code> : Returns the result of multiplying all values in a Series.
<code>.min()</code>	Finds the smallest number in a Series.
<code>.max()</code>	Finds the largest number in a Series.
<code>.median()</code>	Returns the midpoint in a numerical data set.
<code>.mean()</code>	Calculates the average value by adding all values and dividing by the total rows.

building an analytical picture of your numerical data set for deeper insights

Sort Methods

<code>series.sort_index(inplace = True)</code>	<code>.sort_index()</code> with the parameter <code>inplace</code> . The default behavior for this method is to return a new copy of the Series.
<code>series.sort_values(inplace = False)</code>	<code>.sort_values()</code> will provide numerical and/or alphabetical order in the output.

Display Methods

<code>series.head()</code>	captures the top rows of the Series:
<code>series.tail()</code>	captures the bottom rows of the Series:

Null Value Methods

<code>.dropna()</code>	method to remove — or drop — any null values, including NaNs
<code>.fillna()</code>	method to overwrite — or fill — null values

Best for: removing null values to improve the data integrity of your Series

Index Methods

<code>series.iloc[n]</code>	use <code>.iloc[]</code> to call the value at index <code>n+1</code>
<code>series.iloc[0:n]</code>	Slicing specifies a range of rows to return
<code>series.loc["input"]</code>	<code>.loc[]</code> retrieves the row matching this string in the input

