Python for Data Analytics Learn everything about analytics



Pandas: Reading a spreadsheet and basic operations

Topics covered

- Introduction to Pandas
- Reading a spreadsheet (CSV and Excel)
- 3. What is DataFrame and its operations? Everything about analytics
- Indexing/ Selection in DataFrame
- Column selection, addition and deletion
- 6. Subsetting in DataFrame
- 7. Exporting DataFrame to spreadsheet (CSV and Excel)



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What is DataFrame and its operations

A DataFrame is similar to Excel workbook tabular datasheet





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1	Α	В	С	D	Е
1	PassengerId	Survived	Pclass	Name	Sex
2	1	0	3	Braund, M	male
3	2	1	1	Cumings,	female
4	3	1	3	Heikkinen	female
5	4	1	1	Futrelle, N	female
6	5	0	3	Allen, Mr.	male

DataFram	ıe

	Analytics Vi DataFramea										
С		D	E	ryth	ing a		Passengerld	Survived	Pclass	Name	Sex
ass		Name	Sex		٥	0	1	0	3	Braund, Mr. Owen Harris	male
	3	Braund, N	male			1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female
	1	Cumings,	female			2	3	1	3	Heikkinen, Miss. Laina	female
	3	Heikkinen	female			3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female
	1	Futrelle, N	female			,					
	3	Allen, Mr.	male			4	5	0	3	Allen, Mr. William Henry	male



What is DataFrame and its operations

Basic operations with DataFrame

Operation	Command to perform			
Dimension of the DataFrame "rows X columns"	DataFrame.shape()			
Access Top/ Bottom <n> records</n>	DataFrame.head(n)/ DataFrame.tail(n)			
Access all column names	DataFrame.columns			
Access data of one column	DataFrame["columnname"]			
Access data of multiple columns	DataFrame[["column1","column2",]]			

