Pandas

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CSV

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Pandas

- =) open source library
- => easy to use for data should see and data onalysis
- =) high berformance

Application

- => Modelling
- => Visualization
- =) Big dota
- =) Text processing

- 3 Dota ning
- a Shistical computing
- =) Numerical Compling

Shucknes in Data Types of Pandas Data Smiture Dim Description 1-D lobeled 1 Nomogenous size immobile Beries General 2-2 loherel 2 Datatrame heterogenous 8132 mw rable Panel 3-D labeled 3 Size mutoble

Pandas Datoframe

A dalayrame is a 2-D dota s'increre i.e. dota is alligned in yours & columns

=> Features

- a) Can perform withemotic colculation
- 3) Analogous to kelwor dota
- 3) Size mutible
- =) Labeled arks (

Column Index/ He order

	_	0	1[/	2	3	Ч	5	6	2	2	9	10	16	19
\int	Pass	engerld	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked	pID
0	80	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	S	3
1 9	Is	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	38.0	1	0	PC 17599	71.2833	C85	С	1
2	3	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	S	3
3	7	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0		0	113803	53.1000	C123	S	1
4	J	5	0	3	Allen, Mr. William Henry	male	35.0	// 0	0	373450	8.0500	NaN	S	3
0,	أ د	nlex			Column		ele	ment	:/ ,				20 W	
								val	re le	entry				

Datajrame

pd. Data Frame

can convert any given data (provided in rightformot) into a dj.

Import data wing Pondos

pd. read -csv

pd. read - table

pd - 1800 - json

pd. read_ sq1

pd. read - cliphord

Operations on Data Frame

Column

Add / Deleve/ Select/ change rame Rows

Addition & delotion

	<u>()</u>	حك		5			6	′		
	Passengerld	Survived	Pclass	NameOfPassenger	Sex	SibSp	Parch	Ticket	Fare	Cabin
0	1	0	3	Braund, Mr. Owen Harris	male	1	0	A/5 21171	7.2500	None
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th	female	1	0	PC 17599	71.2833	C85
2	3	1	3	Heikkinen, Miss. Laina	female	0	0	STON/O2. 3101282	7.9250	None
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	1	0	113803	53.1000	C123
4	5	0	3	Allen, Mr. William Henry	male	0	0	373450	8.0500	None

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