what is Pandas?

-> Pagdas is a Python library used for wooking with dutcise +s it has functions for analysing, cleaning, explosing, and manipulcioning datasses are loss codes and use di The name Pandas "has a reference to both i panel Datall and "Python Data Analysis and was created by wes · colost teeles. Mckingy in 2008

-> why we pandas?

Pendes allows us to analyze big data had make sobre conclusions based pon establi sacristical theories. Pandas can alkan messy detasets, and make them recolable and relevant.

Relevant data is very important in data science. · 0012000 . 202009

-> what can pondas Do 9.

- ashine botos? it prints control · I'm these a cosselation between two or more Columns.

Pontas as Id

- Charles Chescale College

- · what is average value?
- · max values.
 - · wie sames.

installation of pandas.

if you have python and PIP already installed on a system, then installation of Pandas is very easy

Dapost Pandas coses cos tous bons a taylood nood contest!" be

> impost peodas.

Pardas as Ad

Pandas is usually under the pd alias.

cosate an alian with the as keyword while imposting.

impost pandas as pol

-) checking pandas version.

The reasion string is sooted under - reasion - attaibute.

is Peacles ?

Mckrogen is 2005.

impost randas as pd

Point (pd. - version -)

randors series

what is a series 9.

A pandas series is like a column in a nable.

Functions

Locate Row

Panday use the loc attribute to between one so mose specified sow (5)

Named Indexes:

indexes.

locate named incluses

use the ramped l'incluse l'o the loc attaibute to return the specified son c

impost pardas as pd

Basic data standures in pandas.

1. Series: or une-dimensional labeled arrows
holding duta of any type.

such as votegers, strings, 19thon
objects etc...

2. Data bocase: a 1000-dimensional doctors touture that hold data lilu a two-dimensional assay or a table with sows and obumns.

Object (secition)

Coeciting a Series by Passing a list of valley, letting Penders coecite a default Range Indus.

your dura.

viewing data

basics functionality Esseo tially i study gours douts! Section.

We Other Forme. head () and Other Forme. tail () to view the top and bottom rows of the frame delbecainely:

- -) df. head()
- -> df. tuil ()

Display the Dataforme index of Dataforme. columns !

- Dutafacing. Sout_values ()

Selection pil tosition.

- outing a light of walking a list of values.
- -> describe () show a quick statistic summay of your dura. view in data
- → df describe ()

Transporting your data'.

We Describe head CD and Described soil CD

- -> Ruta Frame · sort_ index ()
 - -) Portaforame. Soot_value ()

Selection by Position.

Deuta Facine. iloc 00 00 Deuta Focine: ict 0

Se the Essepticity

Se choo.

goth agiv of

i Havinaglas

of the board ()

-> df. tuil ()

Concat .

the Waterteene's Columbs. pandas poourde various facilities for early combining together Series and Data Focone objects with unious lainds of set logic for the induces and relational algebon functionality is the cale of Join I meade - ty be observations.

pandas objects together concertion ating 4tion arion -0008 (oncut ()

join

jois type, merge co encibles sal style along spesific adumns. See the Data bare Style jaining section.

-> Pd. megge (left, right, on = "keg")

The Stack() method "corpoeues" a levol in the Datatackne's colums.

pondas poourde scionistation facilities los early stacked = df. stack (future - stack = Tome)

Plotting and signi that to should suppose dejoi

and religional orlaspon functionals in the cons

-> impost metaplotlib. psyplot as plt.

concepting pandes objects together () twood atta 92100 -0000

rocade co europei ser ser son abason slory spesific columns. See the Dancebers

style Johnson section.

טוסנים