



Python for



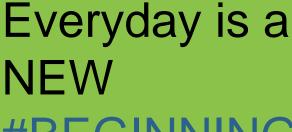
DataScience







NEW #BEGINNING



Why do we Live?



In Early 90's
-We live in
planet called
Earth ...

Why do we Live?



In Early 21'st Century -We live in Data driven planet called Earth

Without data you're just another person with an opinion.

Who Am?



I'm not programmer by birth. I learned it. I have no close relative who is programmer -Dedication, Practice, Self-motivation













HELLO! Lam Santosh Purbey

сто - BitsInnovation

I am here because I love Python

Data Anylistics

Django

Machine Learning

Data Scientist

IOT

Cloud Computing
Full stack Developer



Python tools for data scientist





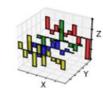












scrapy

What is Data Scientist

A Person who is better at Statistics than any software engineer and better at software engineering than any Statistician

Why Data Science



The
Sexiext
job of the
21'st
Century

Why Data Science

The Sexiext job of the 21'st Century

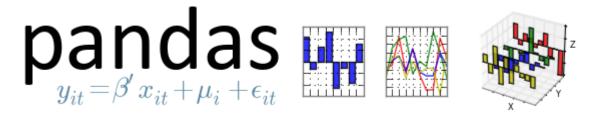
Pandas = + NumPy +

- -Python
 - Easy Syntex, Helpful community
- -Numpy

Fast, Memory Efficient Calc well tested algorithms

-R

DataFrame Column labels Indexes to align rows



http://pandas.pydata.org

```
>>> import pandas as pd
#To read CSV File
>>> csvObj = pd.read_csv("file.csv")
>>> len(pd.DataFrame)
425
```

Pandas Data Structures: Series

Index		Values	
0		3	
1		5	
2		11	
3		-1	
4		4.6	

One Dimentional array like object containing data and index(or labels)

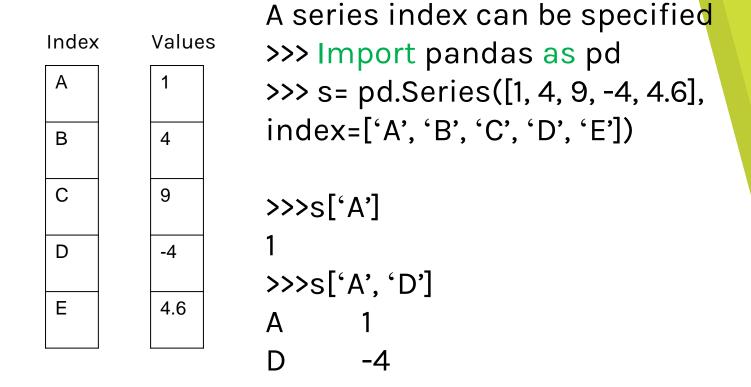
```
>>> Import pandas as pd
>>> s= pd.Series([3, 5, 11, -1, 4.6])
```

Pandas Data Structures: Series

Index		Values	
0		а	
1		b	
2		С	
3		d	
4		е	

Lots of ways to build Series
>>> Import pandas as pd
>>> s= pd.Series(list('abcde'))

Pandas Data Structures: Series



Pandas Data Structures : DataFrame

Spreadsheet-like data Structure
Has both row and column
Consider as dict of

Series

	Country	Population	Year	Growth
0	Nepal	22,224,444	1991	2.6
1	India	2,111,1111	1991	14.8
2	China	222,222,222	1991	11.5

"Life is short Use Python"



Do not waste decade to learn Programming



THANKS!

Any questions?

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