13 June 2023 07:01

Beginner -> Intermediate # (Rython)

AKASH PUSHKAR CHARAN

Quick witted | Tech-Savvy | Observer



- Machine Learning Enthusiast
- IIT Kanpur Alumnus
- Working as Lead Data Scientist with Accenture Strategy & Consulting

An instructor by passion and data scientist by profession who always tries to look at the problem in a different way. I started teaching when I was in first year of my graduation which amounts to 10+ years of experience.

"It's not who I am underneath but what I do that defines me"

PROVIDE LINKEDIN PROFILE

https://www.linkedin.com/in/akash-pushkar-04642925/

Started whatematics 2008.

GATE | CAT

Data Scence

Setting the ground rules & expectations

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Ground Tilles:

Mobile phone - DND bowls

Lack questing

- Two windows after breek

Lend of the session. 1) Sheer town attention of interaction

Revision is the key to success. Lend of the Always revise all the notes (Onemote) & notebooks before you attend the next cersion

- (3) 4 times a week. In case, you happen to miss a class, ple cover the topics using times.
- Real life application => Industrial examples. 4 - (learning/experience from my bast projects)
- Everyone will code.
- Assersment question > HW

 > BIC: Question in class

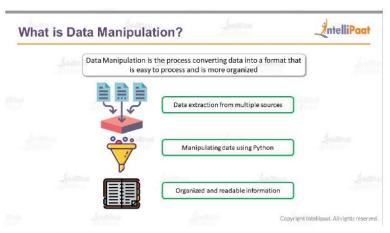
 Reading assignment: W

 Case-studies
-) Breaks # (10-15mins)

Course Structure
Pre-requisite: Python Basics - Condutional statements Looping Statements Functions Lambda functions
Module # 12 Pandas Los 2.0 has been released:
Module #1 Numby. For data manipulation activities = EDA: Exploration Data Arrayais Module #1 Data visualization using Mathlotus - MATLAR style # Storytetling with data - Seaborn - Object oriented style Storytetling with data - Seaborn - Seaborn - Seaborn - Seaborn - Seaborn - Seaborn - Shory Attain - Enterprise visualization
Module # Probability & statistice & a bity mathe: toundation for ML/DS. Descriptive Interental
Module #13 Introduction to ML Supervised Vasuper vised.

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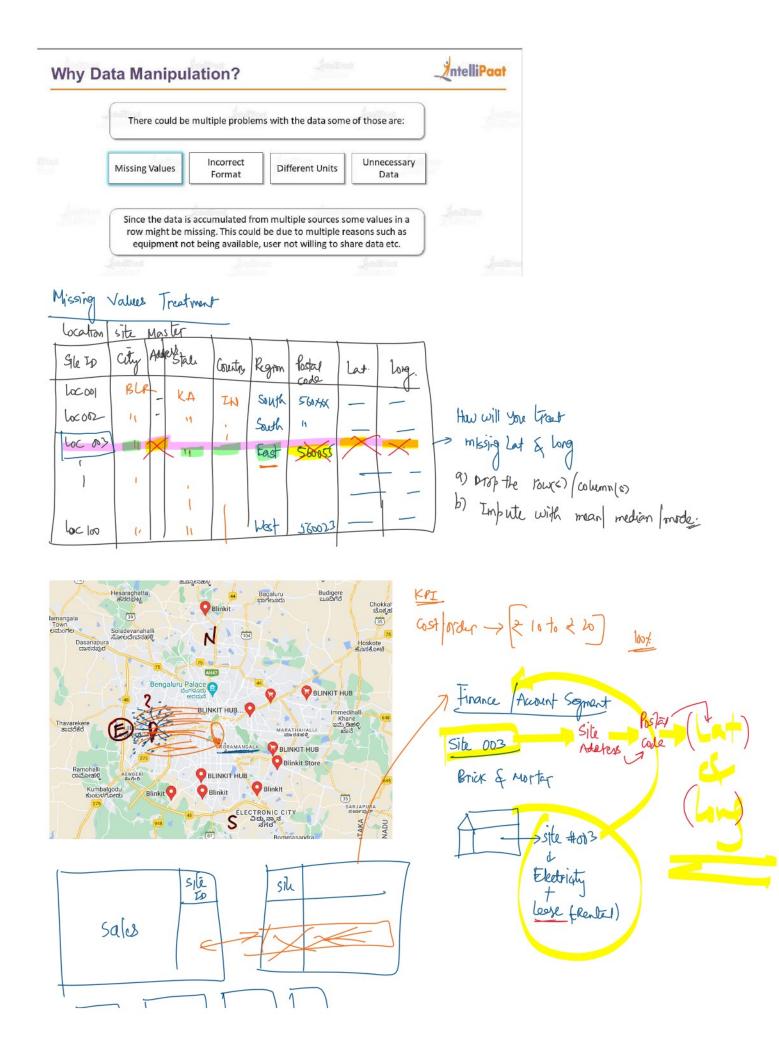
What is data manipulation?

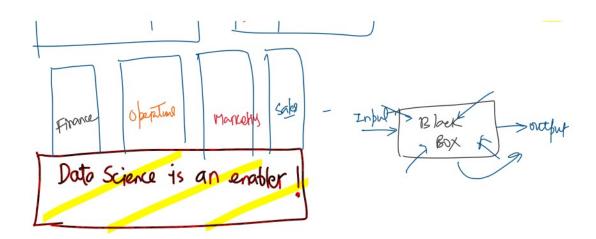


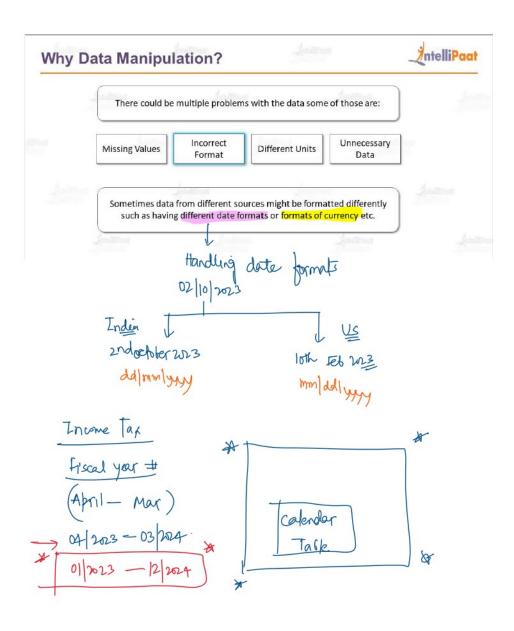


Facts Table -- transaction Table (sales data)

Dimension Table -> Moster Files (Item | site | customer)







Why Data Manipulation?



There could be multiple problems with the data some of those are:

Missing Values

Incorrect Format

Different Units

Unnecessary Data

Different sources might also have different Units of measurements such as temperature being measured in Celsius, Fahrenheit and Kelvin or distance being measured in Miles and Kilometers etc.

kg and littles

Why Data Manipulation?



There could be multiple problems with the data some of those are:

Missing Values

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Unnecessary Data

Sometimes we have a large dataset with columns that contain values that are not relevant to the tasks that you are performing. For example Some datasets have unique id columns which are not important.

Variables Corbemns & Importance

Rest excrything we drop

What is Numpy?

The Numpy library is a very popular Python library and the abbreviation is "Numerical Python". The purpose of Numpy library is to do scientific computation and apply them to python applications.

Numpy

Numpy

How will NumPy help in Data Science?

- 1. First of all, It is a open source Python library
- 2. It is fast because it is written in C and Python
- 3. In Python, there is no in-built array capabilities
- 4. You can use List as an alternative for arrays, but NumPy is better. But how is it better? We will discuss that now.