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Why Pandas?

- 1 Data Manipolation
- 2 Data Analysis

1 Data Maniplation

Manipolation of data is the process of manipulatinig or changing information to make it more organozed and readable.

pandas

2 Data Manipulation

- Purpose:
 - Consistant Data
 - Project related data
 - o Create more value for data
 - Remove or Ignore Data

RAW Data -->

- step1. Data collection/loading.
- step2. Data clean.
- step3. Data filltration.
- step4. Data remove up/ignore.
- step5. Data joining/raking/tidy up.
- step6. Data joining/merging.
- step7. Data splitting.
- step8. Missing value found.
- step9. Duolicate value remover.
- step10. Image analysis.

```
--> Cleane Data(become readable),
Data Analysis,
Make some grapes,
```

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Then repoting, And presentation.

2 Data Analysis

- Virtual part of a bisiness
- Learn and adapt(Nokia , Samsung , Apple)
- Data driven decision making(CODANICS Youtube)
- Data driven policy making(Methan Emission, polutino etc..)
- How many likes and responses?
- Should I continue this course?
- how international we are?
- How good is our modle?
- Should we ban diesel car? or improve more gas car?
- Persent of people
- Engineering work performances

Types of Data Analysis

- 1. Discriptive analytics: What happened?
- 2. Diagnostic analytics: Why did it happen?
- 3. Predictive analytics: What is likely to happen in the future?
- 4. Prescriptive analytics: What is the best course of action to take?

Pandas - vs - Ms Excel

- Data Frame ----Worksheet
- Series-----Colums
- Index-----Row Heading
- Row-----Row
- NaN-----Empty Cell
 - -> Python Library
 - -> Data Analysis & Data Manipulation
 - -> Data Analysis
 - -> Data Science
 - -> Machine Learning(ML)
 - -> If your work involves Data you must use it
 - -> Once you know you will use it(its free)
 - -> Load, read , prepare, model and analyze data
 - -> Join, merge, filter, reshape

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-> Data from different databases and join in one

- -> Anything with data
- -> DataFrames=Pandas Data structure
- -> Kashti data=downloaded and saved it excel