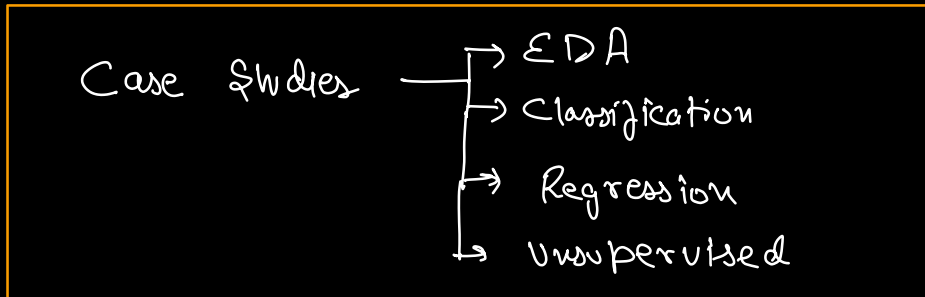


Welcome everyone

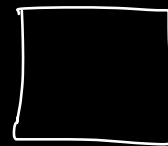
⇒ Data Science
⇒ Machine Learning } ⇒ Case Study



11 am - 1 pm ⇒ all codes
notes ⇒ ★
reference material

Classification Case Study

exploring



remembering

2 ways to take this case study Community Class

★ 1. Enroll on Ineuron Platform ★

2. Via YouTube

⇓
live
classes

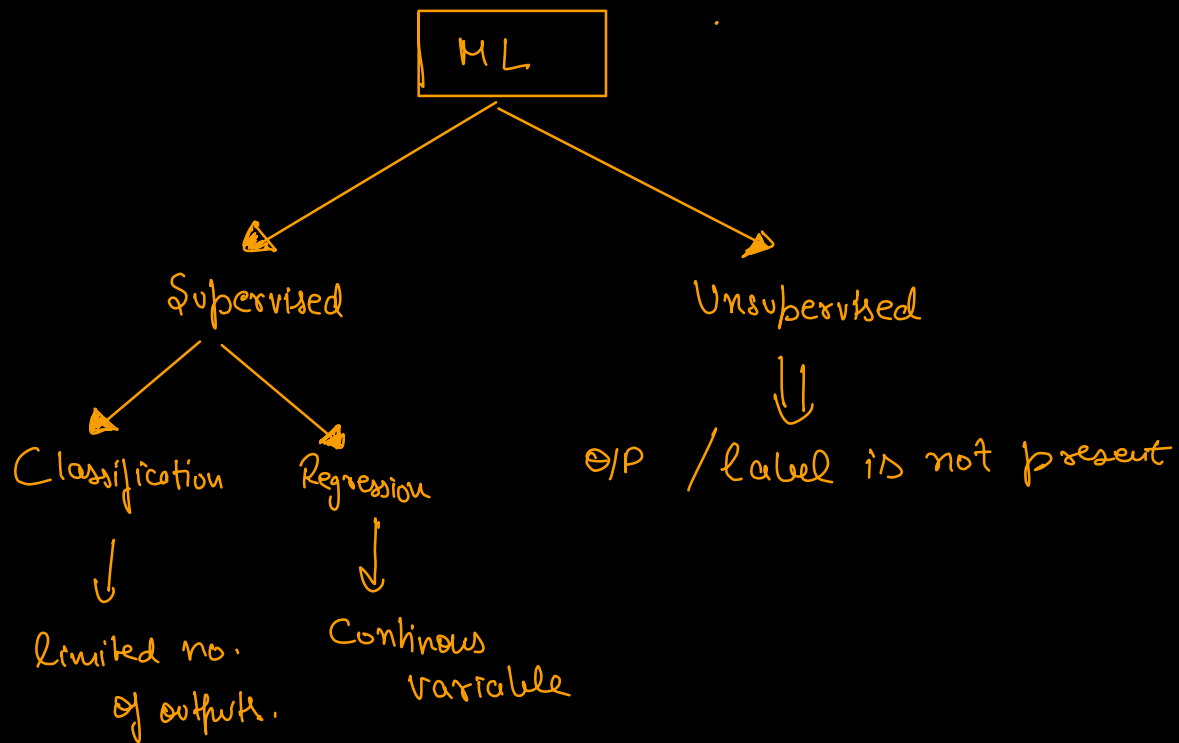
11am - 1pm

→ Quizzes
→ Assignment

Certificate

recorded

Classification Case Study



Classification Problem

1. Binary Classification

Y M P } 2 classes
N F NP

2. Multiclass Classification

M S One } multiple
F V Two } classes
O Ve Three



1 vs others

M	1
M	1
F	0
O	0

Steps in Supervised ML algorithm

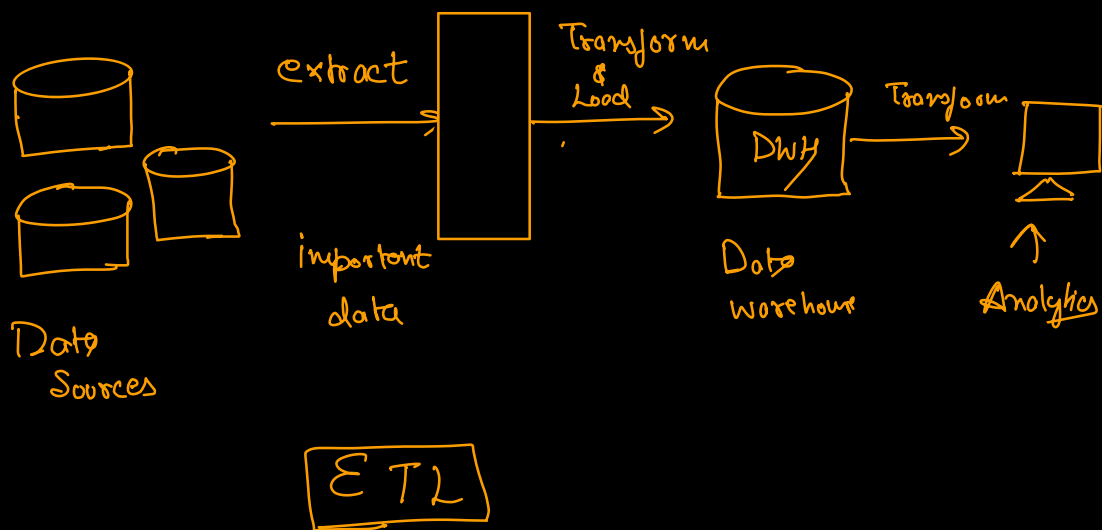
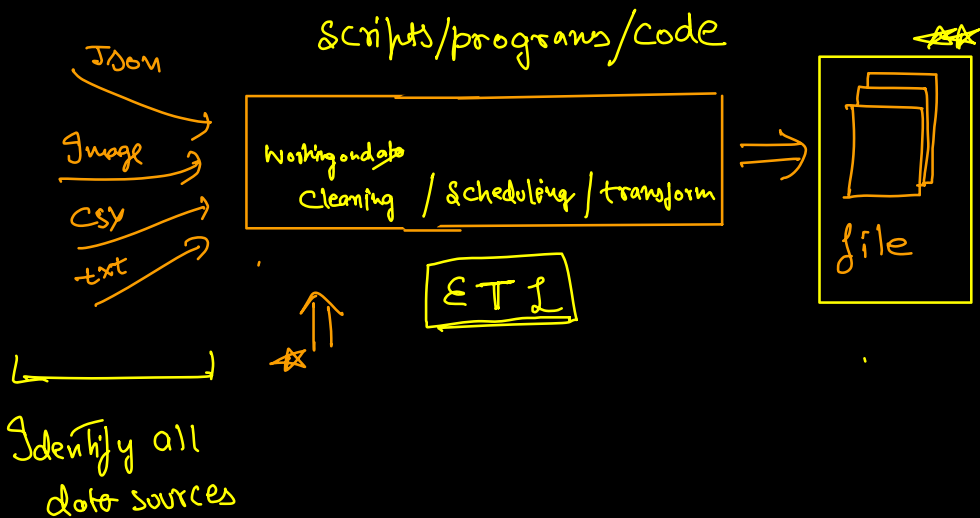
Q. Understanding Business Problem

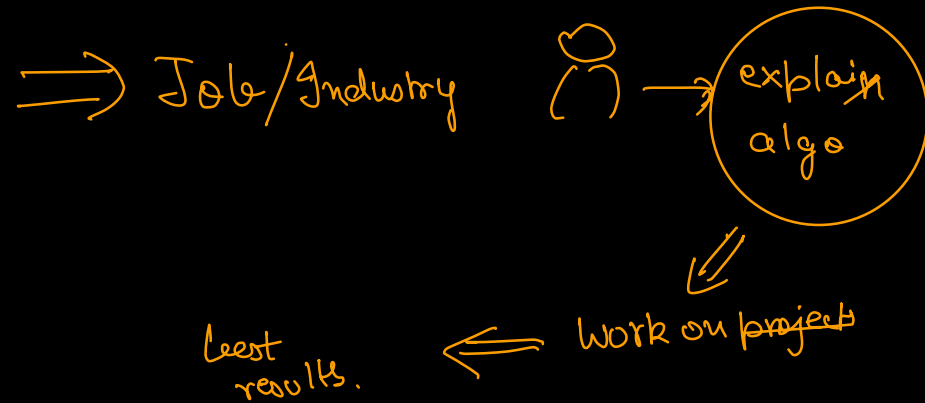
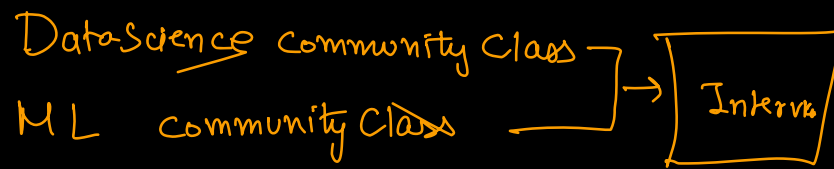
1. Obtaining/Collecting your data

CSV
JSON
AVRO
Images
txt

fruits
infinite
internal
external

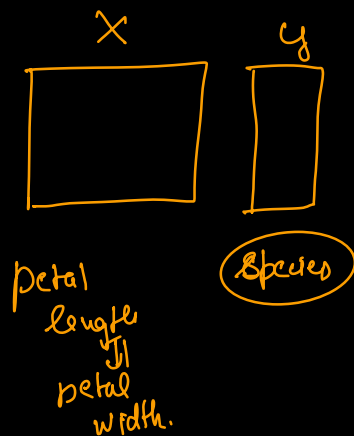
2. Collate your all data at a single place
& in a manner that it can be
worked upon





3. Cleaning & EDA on your data

- Clean the data
- Statistical analysis
- [Missing value, outliers, norm/stand]
- Feature engineering
- Univariate / Bivariate / Multivariate



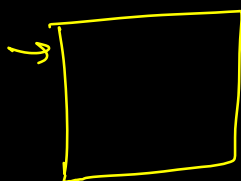
$x_i \Rightarrow$ dependent

$y \Rightarrow$ dependent

$x_i, x_j \Rightarrow$ highly dep.

Bivariate

★ ★ Don't force your observation/experience/knowledge on the data while doing EDA



single $\Rightarrow 3/4$

single $\Rightarrow 5$

verif

Business knowledge-

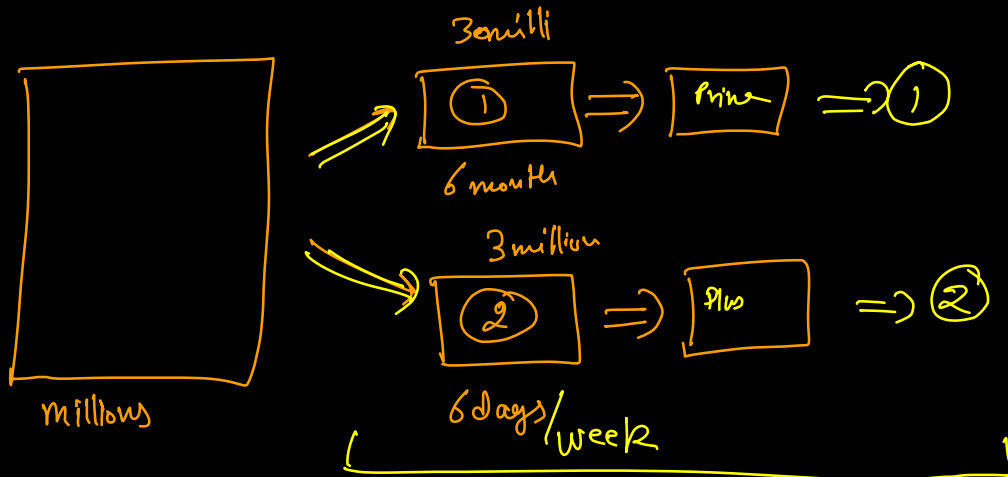
Domain Knowledge

Swiggy / Zomato

Amazon / Flipkart

Super Gold

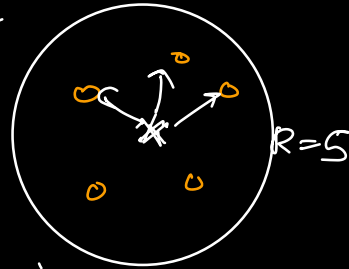
Prime / Plus



Missing Value analysis

1. Mean/Median \Rightarrow numerical
2. Mode \Rightarrow categorical

KNN \Rightarrow



mean/median of values

mode of category