Variables

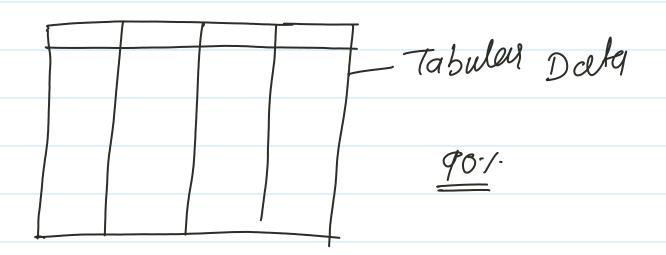
- Quantitetre - qualitetire	
-> Desonte qua. vani. (0-9) -> Mominal qual. va (yes/w) (T/F) (P/I	(, '
-> continues qua vari> ordinal quali var. (industry - inter, 7	
(industry-inter, 7	
senior,	
Assl. mang.	
No. of	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	

Data

information > image, voice, pdf, word, video ek.

Type of Data

- 1) Structure
- 2) Seni structure
- 3 unstructure



Seni strukue - son, parque, GBG, xml ek-

unstructure

image, voice video, word

Database

RDBMS

SCRL

Structure

NIO SQL

Mysol

SOL Server

Corsandry

Cracle

Semi structure

Missing value

features

10	Nome	Salery	Age	
	Rahul	101	19	mean (Arg)
2	vinay	20k	=	meelian
3	nistesh	40K	22	mode
9	seishank	45K	28	noac
5	Pavi	30K	30	
6	Pankey	SOK	=	

19 22 2830

$$medig = \frac{22 + 28}{2} = 25$$

$$mode = [1,2,3,3,2,1,1]$$

$$Age = \begin{bmatrix} 10,20,20,30,40,-,-,-25,30,-,-,90,100 \\ 10,20,20,25,30,80,40,90,100 \end{bmatrix} \Rightarrow 30 / 40.5 = \frac{10+20+15+30}{4} = \frac{33.75}{18.75}$$

[18,20,30,37,28,22,35,33,21,27,29,31,38,37,28 89,1,2] outlies [anomalies

appel fonce = Q3+1.510R

lower fence = Q,-1.510R

$$Q_3 = 34.5$$

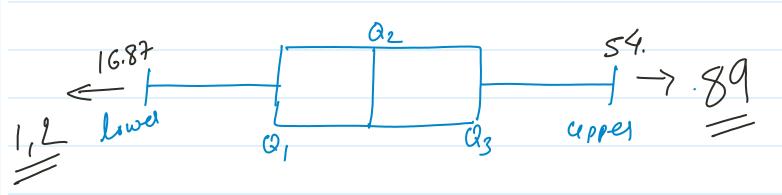
upper fence =
$$34.5 + (1.5 \times 13.05)$$

= 54.07

lower fence =
$$21.45 - (1.5 \times 13.05)$$

= 16.87

Box and whisker plot



Encoding in data

10	Grac	de
	A	
2 3	,	
	BA	
5 6	り	
[7]	B	

8	neo	de
	0	
	1	
	0	
	3	
	ユ 1	
		<i>-</i> L'

labelencodes

one-hot encocling

	Grade	A	13	C	D
	A	1	O	\bigcirc	6
	B	0	1	0	Ō
	C	O	0		O
	D	0	0	O	
	C	0	O	1	O
}	B	6		6	O
	<u> </u>	O	Ö	Ō	

Scaling

x = features / Ind. feat.

X	(X ₂	χ_3	Y
-	100	1009	/
3	150	1500	
4	180	1800	
2	350	1620	
5	440	1250	
0	- 1		1 2000
2000	= 0.00		• 1
150	= 0.0	79	3-1
1800	- 0.9		

 $\frac{\times 7 - \times 1}{\times 1 + \times 1}$ correlating

stander sculer