

What is Missing Value/Data?



 In the variable or any observation, values are not stored called as missing values/data.

Age	Sex	Male	Female	Age range
23	Male		0	21-30
12	Female	0	1	
34	Male	1	0	31-40
26		0	1	21-30
	Male	1	0	11-20
38	Male	1	0	31-40

What are the Methods to Handle Missing Values?

- Ignore missing values row / Delete row
- Fill missing value manually
- Global constant
- Measure of central tendency (Mean, Midian & Mode)
- Measure of central tendency for each class
- Most probable value (ML Algorithms)





Ignore Missing Values Row / Delete Row



lava		20000	Dev	Exper.	Salary
Java Python	1	20000	Java	1	20000
Java	1.5	25000	Java	1.5	25000
Python	2	40000	Python	2	40000
Python	4	80000	Python	4	80000
	2				

Fill Missing Value Manually



St. Percentage	Present		St. Percentage	Present
80	Р		80	Р
45	P		45	Р
34			34	P. No.
00	A	II.	00	Α
	L			
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Global Constant



Age	Sex	Age	Sex
23	Male	23	Male
12	Female	12	Female
34	Male	34	Male
26		26	Unknown
	Male	0	Male
38	Male	38	Male
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Measure Of Central Tendency



Mean, Midian, Mode

Dev	Exper.	Salary	
Java	1	20000	
Python	4		i i
Java	1.5	25000	
Python	2	40000	
Python	4	80000	
Java	2		

Dev	Exper.	Salary
Java	1	20000
Python	4	41250
Java	1.5	25000
Python	2	40000
Python	4	80000
Java	2	41250

Measure Of Central Tendency For Each Class



Mean, Midian, Mode for each classes

Dev	Exper.	Salary	Dev	Exper.	Salary
Java	1	20000	Java	1	20000
Python	4		Python	4	60000
Java	1.5	25000	Java	1.5	25000
Python	2	40000	Python	2	40000
Python	4	80000	Python	4	80000
Java	2		Java	2	22500

Most Probable Value



Use ML Algorithms – Linear Regg, Decision Tree

Dev	Exper.	Salary	Dev	Exper.	Salary
Java	1	20000	Java	1	20000
Python	4		Pytho	n 4	80000
Java	1.5	25000	Java	1.5	25000
Python	2	40000	Pytho	n 2	40000
Python	4	80000	Pytho	n 4	80000
Java	2		Java	2	30000

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Ignore Missing Values Row / Delete Row



Dev	Exper.	Salary			1_	
Java	1	20000	i	Dev	Exper.	Salary
Python	4			Java	1	20000
Java	1.5	25000		Java	1.5	25000
Python	2	40000		Python	2	40000
Python	4	80000		Python	4	80000
	2					
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