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PICT, PUNE	DSBDA Lab
	Axignment -2
6	Title: Data Wrag ling II
1	Problem statement:  ( ) ante a "Assadonic Perlamenta" doublest al studients.
	(reate on "Academic Performance" dataset of students.  8 perform the following operation using Python.
2>	Find & volve in constitencies & missing values  Find & deal with outliers
3>	Apply data transformation on at least one of the variable.
•	Learning Objectives:
<del></del>	To learn & understand data wrongling in pandas. To deal with missing values (inconstistencies
o> u>	To deal with outlies in the dataset. To loan & perform transformation methods.
	Leaving Outcomes:
- L	student will be able to:
2>	Perform handling of outliers Perform data transformation for better un deutanding of variable.
	H/W & S/W Requirements:
	Windows 10 64 bit, & GB RAM, 256 GB SJD, Intel i5-8300H processor, Tupyton Notebook, Python 8.9



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•	Theory.
	An outlier is an observation in a given dataset that
	lies for the rest of observation
	Mean is accurate measure to describe data when we
	do not have outliers present.
	Median is used when outlier is present in detaset.
	Mode is used if there is outlier of greater than or
	equal to 1 of data is same.
	2
	some techniques to detect outliers:
	Box Plot
_	Z-score
-	Inter guantile Kange
0	Some techniques to treat the outliers:
	Trimming / Remony
	quantite based flooring in crapping.
-1	Mean Median interpretetion
	Normalization is a technique with the goal to
	change the values of numeric columns to q
mal and they	change the values of numeric columns to a column cale without differences in the ranges of
	values ar losing information.
•	Conclusion:
	Missing values, outliers detected of normalization
17.81 3	applied.