Problem statement -

create an" Academi'c performance" dataset of students and perform the following operations using python.

- 1. scah all variables for missing values and Inconsistance. It there are missing values and for inconeistencies, use any of the suitable techniques to deal with them.
- 2. scan all numeric variables for outlier. It there are outliers, use any of the suitable techniques to deal with them.
- 3. Apply data transformations on at least one of the raniables. The purpose of this transformation should be one of the following reasons: to change the scale for better understanding of the variables to convert a non-linear relation into a linear one or to descrease the skewness and convert the distribution into a normal distribution.

Objective -

extract data from a cource, and convert it into a usable format, and deliver it to a destination.

Theory.

Evaluating for missing Data-

- The missing values are converted to Python's default.
- Python's built-in functions is used to identify these missing values.
- . There are two methods to detect missing data.
 - 1) isnul()
- 2) .not null ()
- the value that is passed into the argument is in fact missing data.
 - "True" stands for missing value, while "false" stand for not missing value.

count missing values in each column

enieu yd

- data isnullo. sumo

Fit-transform () -

is used on the training data so that we can scale the training data and also learn the scalling parameters of that data.

the fit method is calculating the mean and variance of each of the features present in our data.

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	pipeline () -
	The purpose of the pipeline (1) is to assemble several
	steps that can be cross-validated together while
	setting different parameters. For this, it enables
	setting parameters of the various steps using their
	names and the parameter name separated by a
	·, as in the example.
	-sklearn. pipeline. Pipeline Csteps, *, memory = None,
	verbose = false)
	The state of the s
	Result -
	In this way we studied about data transfor
	smation and convert the distribution into
	a normal distribution.
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