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A 13	- han the	taxin :	standard	deviation (6)
	Drain In	68%	of data.	
	Collingiti	007		

For Second Standard deviation (20) will contain 95% of all data Qveilable.

For Third Standard deviation (36) Contain 99.7% of (REPUBLIC DAY) WEDNESDAY 26 data.

Emperical formula: 68-95-99.7

JANUARY . THURSDAY

M T W T F S S M T W T F S S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

2. What is z-score, and !trafocami! Score is a numerical measurement that describes a value's relationship to the mean of a group of values. Z-score is measured in forms of standard from the mean deviations If a Z-Score is O, it indicates that the data point's score is identical to the mean. Z-Score of 10 would indicate a value indicate a value that in one standard deviation from 2 Z-score may be positive or negative, with a positive value indicating the score is above the mean and 80088 indicating it in below mean.

6

JANUARY • FRIDAY

28

20
3. What is an outlier, Exactly?
-) An outliers is an observation
that lies an abnormal distance
from other values in a random
sample From a population. In a sence,
this definition leaves it up to the
analyst to decide what will be considere
analyst to decide what will be considered abnormal observations
can be sign singled out, it is
can be sign singled out, it is necessary to characterize normal
objervations.
Summary for finding the outliers.
Summary For Finding the cuttion
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·Datanet:
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Quetanet: 1,2,2,2,3,3,4,5,5,5,6,6,6,6,6,7,8,8,9,27 11) calculate the median Next, we need to calculate the median The median is the center of the data if the data set has on odd number of data points, then the mean is centerment number. On the other hands if the data set has an even number of values, then we will need to take the arithmetic average of the two centermost values. We will calculate the everage by adding the two numbers together and then dividing that number by two. Ose (median) - 10th position value iii) calculate upper & lower limit; On (25%) = Percentile x (MA) =  $\frac{25}{100} \times (1941)$ = 25 x20 = 5th index = 3 (value)

$$\frac{03}{100} (707) = \frac{\text{Pexcentile}}{100} \times (n+1)$$

$$= \frac{75}{100} \times (19+1)$$

$$= \frac{75}{100} \times 20$$

$$= 15th \text{ index}$$

$$\Rightarrow 7$$
iv) Calculate the difference:
$$T8R = 03 - 0$$

$$= 7 - 3$$

$$= 4$$

$$= 0 - 3$$

$$= 3 - 1.5 \times 10R$$

$$= 3 - 6$$

$$= 3 - 6$$

$$= -3$$

$$= 3 + 1.5 \times 10R$$

$$= 7 + 1.5 \times 4$$

$$= 7 + 6 = (3)$$

rower outlier. 4. what are out options for dealing with outlier in our dataset? as part of data preprocessing is detecting and treating the Buttiers as they can negatively affect the statical analysis and the tocining process of a machine learning algorithm resulting in lower accuracy. the experimental export human error. They may indicate an enpersmental error or heavy skewnen in data. IF the datanes in small, we can just look at it and find out the 30 SUNDAY we need to have the mathematical and vinualization technique There techniques ean be as follows:

5. write the Sample and population variances equation and emplain Bearel Correction.
variances equation and emplain
Bennel Correction.
Sample variance:
10
$\frac{2}{1}(\pi i - \mu)^2$
N-1
Population variance:
N 2
Population variance:  No (xi-u) <sup>2</sup> = 1 = 1
1=1
N
Bassel's Correction enplains that "the
une of n-1 instead of Alnin
the formula for Sample variance and
Standard variance, where n is the
number of data in Sample. This
corrects the bigs of the entimation or
the population variance.