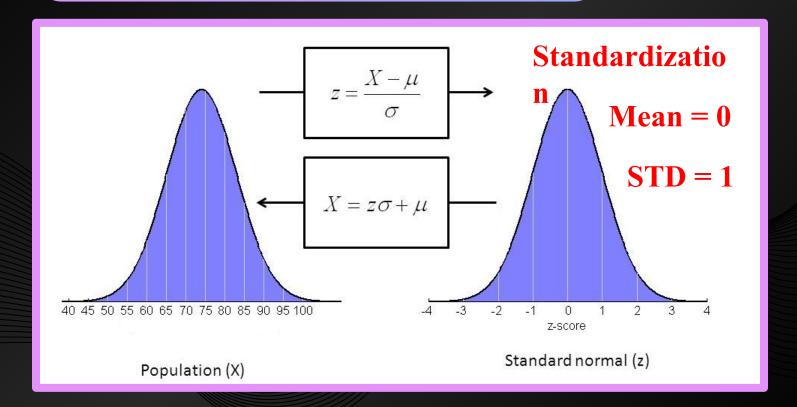
Machine Learning Course | Arabic Data Preprocessing

Level - 01

Link to Lecture on Youtube

Z - Score

Standard Normal Distribution



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Z - Score

It measures how far a point from the mean.

But more technically, it calculates how many standard deviations a point below or above the mean.

$$Z = \frac{X - \bar{X}}{s}$$

Ex.

Let's say you have a **test score** of **190**. The test has a **mean** of **150** and a **STD** of **25**. Assuming a normal distribution.

$$z = (x - mean) / std$$

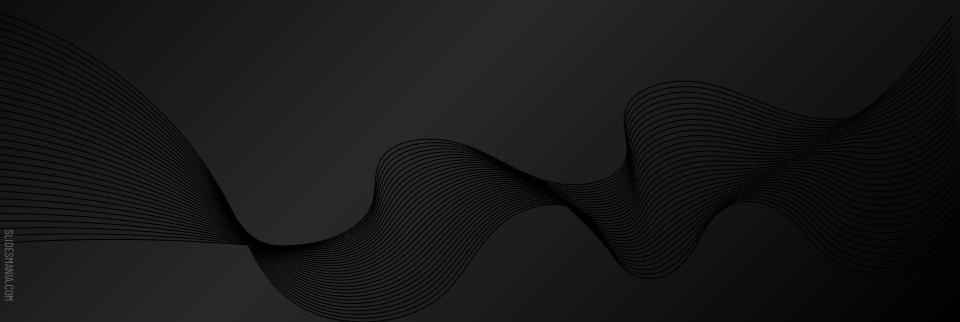
= $(190 - 150) / 25 = 1.6 >> STD$ from the mean

The z score tells you how many standard deviations from the mean your point is. In this example, your score is 1.6 standard deviations above the mean.

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Dealing with outliers by Z-score

On board.



Thank You!

Do you have any questions?

Write them in the comments

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