# Machine Learning Course | Arabic Data Preprocessing

Level - 01

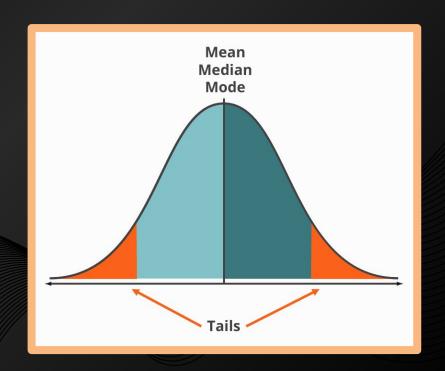
Link to Lecture on Youtube

# Normal Distribution and Standardization

### **Normal Distribution**

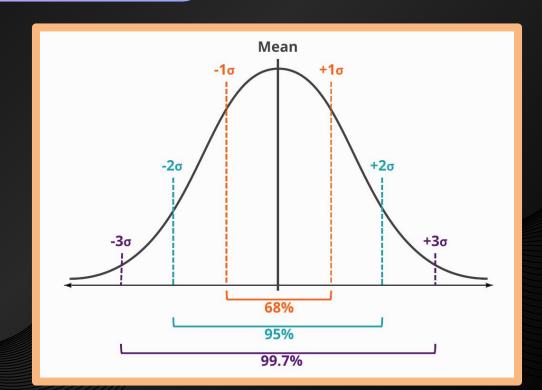
#### **Properties:**

- Symmetrical.
- Mean = Mode = Median.
- Tails tends to zero at infinite.
- Satisfied the empirical rule.
- Data that is close to the mean is more frequent.



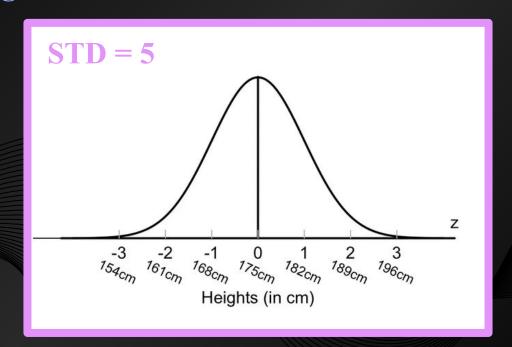
# **Empirical Rule**

Remember!
STD



# Ex.

#### **Humans height:**



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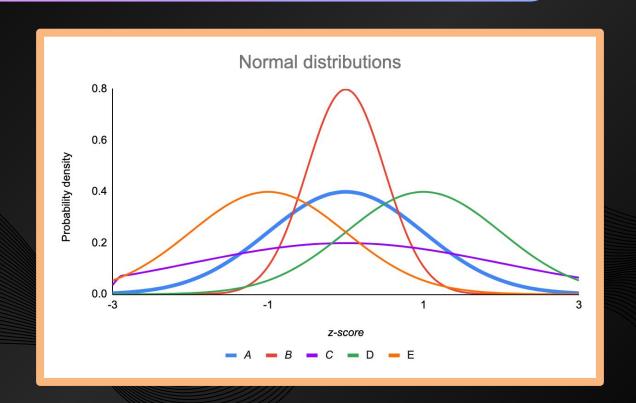


Has anyone noticed a problem with this distribution?

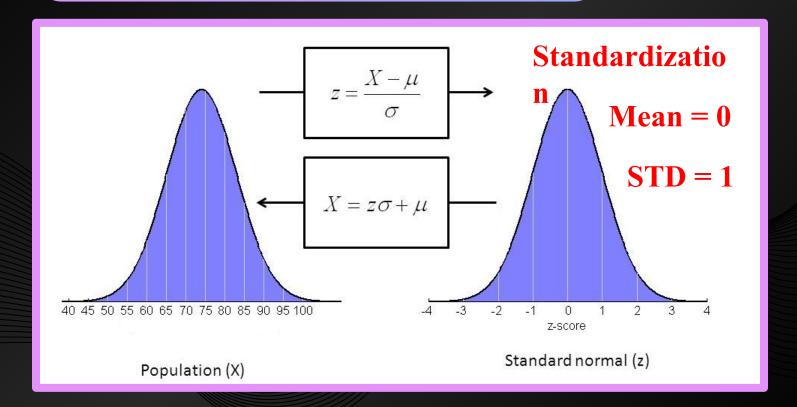


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# **Problem of Normal Distribution**

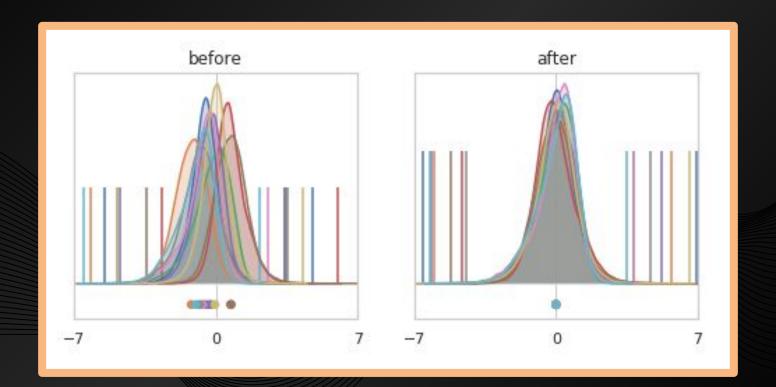


## **Standard Normal Distribution**



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# **Standard Normal Distribution**



# Thank You!

Do you have any questions?

Write them in the comments

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