

Recap.....

- * Describing Two Quantities in
- **Azureml**
- Scatter plot correlation





Guess your Topic...







INTRODUCTION....

Probability



Chance, or likelihood, of something happening.

- · If I toss a coin, what's the probability it will turn up Heads?
- What are the chances it will rain tomorrow?
- If I launch a new product, what are the chances it will be a success?





PROBABILITY

Chance, or likelihood, of something happening.

Number between 0 and 1.

Probability $0 \rightarrow$ Impossible.

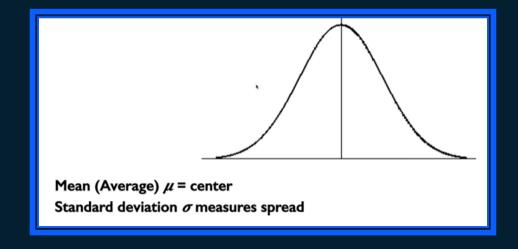
Probability $I \rightarrow$ Certainty.

Probability calculations depend on information availability.



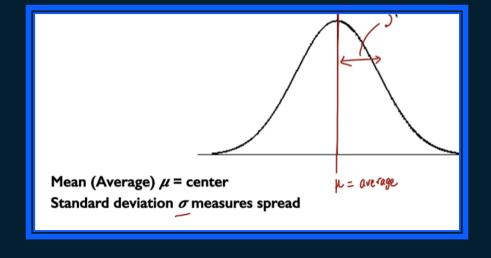




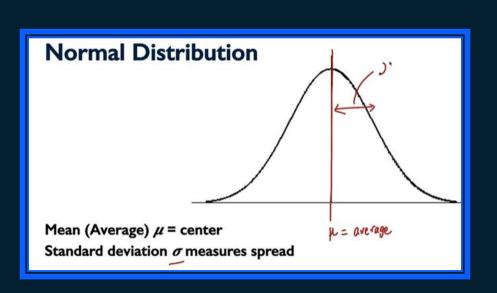
















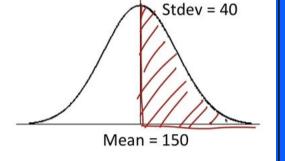


Normal Distribution Probability

Probability = area under the curve for the corresponding interval.

Total area under curve = I

Probability of more than 150?





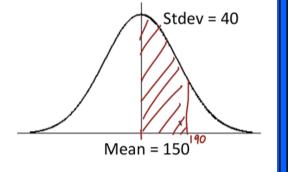


Normal Distribution Probability

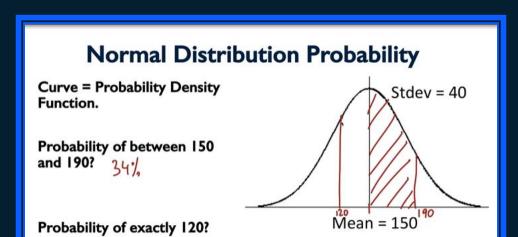
Curve = Probability Density Function.

Probability of between 150 and 190?

Probability of exactly 120?

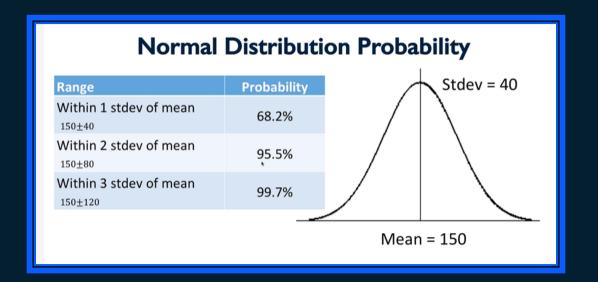






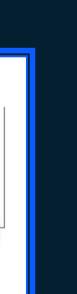


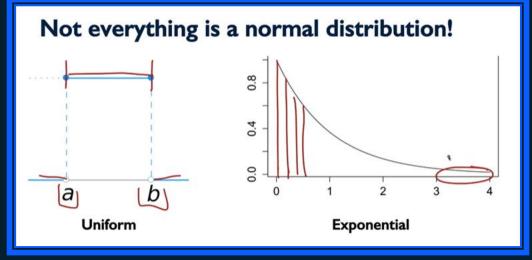














Time for Assessment.....

- All the data fall under normal distribution (True/False)
- In 2 standard deviation= 99.7 % data will fall within the distribution (True/False)



SUMMARY.....

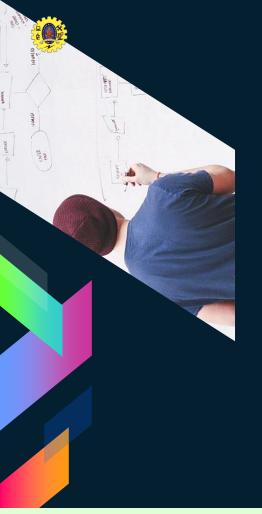
- Introduction to Probability
- Normal Distribution
- **Probability**
- *****Examples





Reference.....

https://www.khanacademy.org/math/probability/probability-geometry/probability-basics/a/probability-the-basics?utm_account=Grant&utm_campaignname=Grant_Math_Dynamic&gclid=Cj0KCQjwoJX8BRCZARIsAEWBFMJX2uNlupQ4-Ek4clp9mg8WcWC_97ylU7OJvoiP3mrm_hwdbBhY8nkaAs_9EALw_wcB



THANKS!

Any questions?.....

