



Electronic Technocrat
techno guy

Data Science Interview Questions





Electronic Technocrat
techno guy

What is correlation and covariance in statistics?





Electronic Technocrat
TECHIE GUY

Covariance and Correlation are two mathematical concepts; these two approaches are widely used in statistics. Both Correlation and Covariance establish the relationship and also measure the dependency between two random variables. Though the work is similar between these two in mathematical terms, they are different from each other.





Electronic Technocrat
TECHIE GUY

COVARIANCE



Large Negative
Covariance

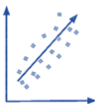


Nearly Zero
Covariance

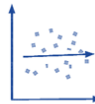


Large Positive
Covariance

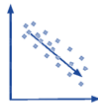
CORRELATION



Positive
Correlation



Zero
Correlation



Negative
Correlation





Electronic Technocrat
techno guy

Correlation:-

- Correlation is considered or described as the best technique for measuring and also for estimating the quantitative relationship between two variables.
- Correlation measures how strongly two variables are related.





Electronic Technocrat
techno guy

Covariance:-

- In covariance two items vary together and it's a measure that indicates the extent to which two random variables change in cycle.
- It is a statistical term; it explains the systematic relation between a pair of random variables, wherein changes in one variable reciprocal by a corresponding change in another variable.

