**CORRELATION**

* The degree of relationship between two or more variables
* The degree of relationship is expressed by coefficient which range from **-1 <= r >= 1**

1. **VARIOUS METHODS OF COMPUTING IT**
2. Scatter Diagram method
3. Graphic method
4. Karl Pearson’s Coefficient of correlation
5. Method of least squares
6. **USED IN BIOMEDCAL ENGINEERING AND TECHNOLOGY**

* Cross correlation method is used for human identification and pattern matching of personalized heartbeat.
* Intra subject’s long-term ECG stability and inter-subject’s variability of personalized PQRST waves are taken and performed via cross correlation.

1. **p-value**

More extreme than my given data(Z) is p-value. It is calculated by,

P (Z > z) = Area of right tail test

P (Z < z) = Area of left tail test

P (Z > z) = P (Z <- z)