**Maharashtra Education Society**

**Institute of Management and Career Courses (IMCC), Pune**

**A.Y. 2021-22**

**MCA Sem III (2020-22 Batch)**

**Course ID- IT 31IL Course Name : MLDL Practical**

**Practical 1: Find the correlation matrix**

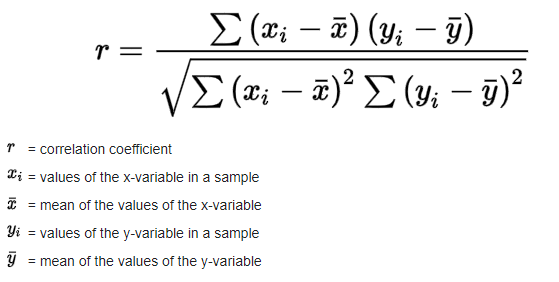
The correlation coefficient (ρ) is a measure that determines the degree to which the movement of two different variables is associated. The most common correlation coefficient, generated by the Pearson product-moment correlation, is used to measure the linear relationship between two variables.

Correlation coefficients are indicators of the strength of the linear relationship between two different variables, x and y. A linear correlation coefficient that is greater than zero indicates a positive relationship. A value that is less than zero signifies a negative relationship. Finally, a value of zero indicates no relationship between the two variables x and y.

**Q.1 Find the correlation matrix using Numpy and Panda library**

**Q.2 Find the correlation matrix using Data frame**

**Q.3 Find Correlation matrix using Formula**

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