



A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering
Data Science



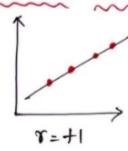
Semester :

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Subject : Statistics for AIDS

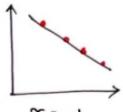
Academic Year: 2003 - 2024 .

CORRELATION COEFFICIENT:-



XT YT.

(Positive Correlation)



8=-1

XY YY

(Negative Correlation).

Example:-

Find the correlation coefficient for the following:

				4	5	6
Y	೩	4	ㅋ	9	12	14

	X	X	ХX	X	y'
	1	2	2	1	4
	೩	4	8	4	16
	3	4	21	9	49
	4	9	86	16	81
	5	12	60	25	144
	6	14	84	36	196 .
5:	21	48	211	91	4980
-	4	4	1	+	1
	ZX	< X	EXX	ZX	< X2

Subject Incharge: Prof. Sarala Mary Page No. 1

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Since r is positive. X and Y are positively Correlated