KNN Algorithm Example

Name	Age 1	Gender	Sport .	Distance
Ajay	32	M	Football	27.02
mark	40	m	Neither	35.01
Rahw	16	F	cricket	11.00
		F	cricket	9.00
Sara	34		Neither	50.01
Budik	55	M	cricket	35.01
Arohi	40	m		15.00
Rahint	20	F	Neither	10,00
Doole	15	M	Cricket	4-4
Pooja	55	F	football	50.00
Laxmi	03	-	9	
Bharte	5	F	6	

Euclidean's distance =

T(x1-x2)2+ cy,-y2+(21-22)2+...

According to the Tabels

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for example here, we have Age 4

Gender & lett's say Male=0

Female=1

1) Ajay & Bhauti's distance

$$=\sqrt{(5-32)^2+(1-0)^2}=27.02$$

Now, if K=3 then Sout about teble in ascending order and top 8 rows will be selected for KNN algorithm.

| distance | Sport |

Sara 9.00 concket
Pooja 10.00 concket
Rahy 11.00 concket

so, bhautits sport will be cereket.