

## KNN

Consider following information of 7 students with three features (Gmat Score, Work Exp, International Awards) and target feature (Admission)

Student name	GMAT Score	Work Exp	International Awards	Admission
Ram	750	0	4	Yes
Ganesh	720	1	2	Yes
Anand	710	2	0	No
Mukesh	690	0	1	No
Shankar	670	4	2	Yes
Chinmay	650	6	2	Yes
Aman	600	1	0	No

Query point :

Student name	GMAT Score	Work Exp	International Awards
Amit	700	1	2

Questions:

1. What is the distance between Amit and Ram?
2. Who are the top 3 nearest neighbors to query point: Amit?
3. If  $k = 5$ , will Amit can get admission?