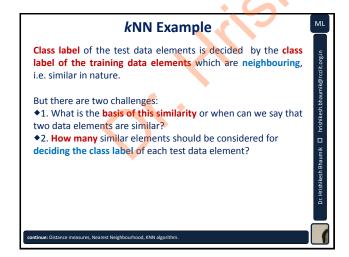
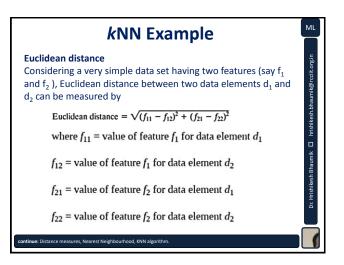
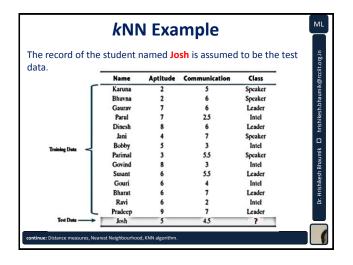
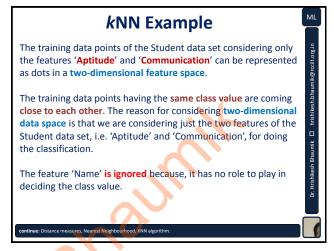


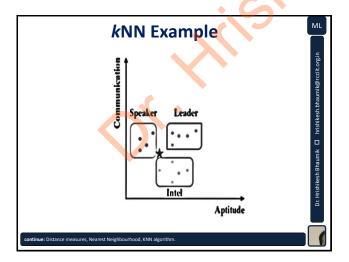
Name	Aptitude	Communication	Class
Karuna	2	5	Speaker
Bhuvna	2	6	Speaker
Gaurav	7	6	Leader
Parul	7	2.5	Intel
Dinesh	8	6	Leader
Jani	4	7	Speaker
Bobby	5	3	Intel
Parimal	3	5.5	Speaker
Govind	8	3	Intel
Susant	6	5.5	Leader
Gouri	6	4	Intel
Bharat	6	7	Leader
Ravi	6	2	Intel
Pradeep	9	7	Leader
Josh	5	4.5	?

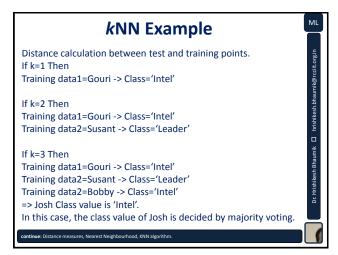


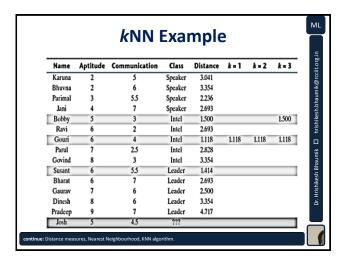


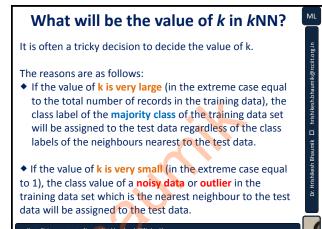


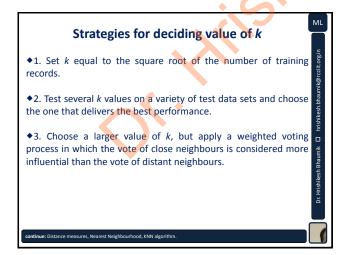


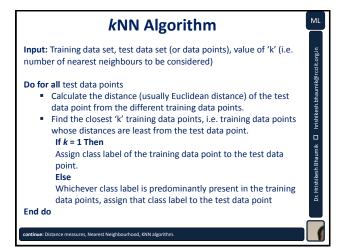




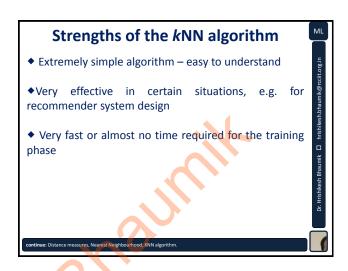








Why kNN algorithm is a lazy learner? Eager learners follow the general steps of machine learning, i.e. perform an abstraction of the information obtained from the input data and then follow it through by a generalization step. In the case of the kNN algorithm, these steps are completely skipped. kNN stores the training data and directly applies the philosophy of nearest neighbourhood finding to arrive at the classification. So, for kNN, there is no learning happening in the real sense. Therefore, kNN falls under the category of lazy learner.



Weaknesses of the kNN algorithm • Does not learn anything in the real sense. Classification is done completely on the basis of the training data. So, it has a heavy reliance on the training data. If the training data does not represent the problem domain comprehensively, the algorithm fails to make an effective classification. • Because there is no model trained in real sense and the classification is done completely on the basis of the training data, the classification process may be very slow. • Also, a large amount of computational space is required to load the training data for classification.

