KNN

me of simplest me model. -> Understanding horough example · Me ham data: (gpa ig Plocemen 7 70 1 (100 pt) Make KNN model which pudicts the placement value leased on gpa & tq. Works based on quote: "Youari aurage of 5 people you spend the most time with." protting capa & ig data we haw x → blue indicates >1 X-> black " -> 0 XXXX * * * * > cgpa principle - le you neighbor. works on KNN like your are

start with we deciding the value of the t=3 means, un are considering 3 neight newest neighbors · Let's say we got a gury with agpa and ag walled wee haw in belue class (1) or black class (5) Now, we will calculate the query et me got from each point in totaining data sort in ascending order, binefit? · closest distance trainging point it is such that the Since t=3, me will select 3 closest distance points and apply majority We will look for 3 points that In which class they fall. In letter (1) or block (0) Lets say > the 3 reighbors classes are: Attighter class (1992) 320

· As blu class (1) is in majority et will say the given query pt will fall in blue classes Moli-Oyenerally distance calculated is Euclidient distance. But there are other types of distances are too. E Works in more than 2 dimesions
teo. In this, we will have n-dimenston coordinate system · Each student will be one vector with dimensions - x, x, x, x, x, x, m in that coordinate system · Ne will get grery, the will broat · And find the distance of query wester from each vector · Chase 3 vectors with closest distant

M T W T L C Page No. YOUVA ! Date to query vector and apply majority count rule