Lectuse: 09

	Lecture: 07	-
13		اس ج
13	You are the average of the five people you spand not time	
1	K-Neonest Neighbor (KNN)	
-	-> It's supervised learning - classification Algorithm/Regress	100
<u> </u>	ASAMASSIS TO SA F- 17 K	
	Bias: the inability of model to truly capture the	
3	belationship in the training data.	
Ma	(diff b/w our actual and predicted values)	
W.	vanience: 9t measures how much the prediction of a	
	model vary for different training datasets.	
9	(model's sensitivity to furtherhous in the data)	
	Overfitting: training error low and tost error high	
	underfitting: training error high	
3	E Company	-
Ŝ	(Target would be low bias, low varience)	
_ 7	(Target would be low bias, low varience)	-
3		-
D .	Example Low and declare and head to	
(Let suppose we have CAPA and IQ of students and	
· ·	we have to predict about their placement selection	w.
	President Sudjace / Oreabion Remains:	
	IQ X X X X X X X X X X X X X X X X X X X	
	x x x x x x x x x x x x x x x x x x x	<i>L</i>
	X X X Class label predict of Query point	
	y comp point	
	CAPA	0
	calculate enclidean distances d'any)= ~ (1/2-x1)2+ (42-x1)2	
	sort distances in ascending order	Ó
-	majority count	
	VIEW IV 1 77	

How to select K?		Y
1 heuristic approach	110	
	(eg) n= 400	THE PERSON NAMED IN COLUMN
n - no of observal	hian either 19,2	
4 use odd number	- toru	<u> </u>
2 Experimentation approach	marker and other street	
(e.g) n=1000		
	AND	
800 200 having testing	model's exchange of plants	- 1-31
The survey so the feet of	A Service Establish Spatistics	0 2
knn -91		
lcnn -> 2	The second and the second property and the second	Na in
Lnn _> 3		
		4
knn -> 25		
build different know models	for n=1,2,3	
and select the best one		
Decision Surface / Decision Be	oundary:	
tool 2000		
) use in order to understan	nd the performance of	
classification Algorithm.		
1) plot the training data		
3 plot ronge of training date	a on N and y-anis	
3 for the range generate		
	Control of the Contro	

9

