DSZ500	
3/21- Fri &	
Admin	42 [11]
- Hure ave apm	- exan # 2 [414] - licture 3/20]
- HWS at, ANR 3/28	(practice at 3/25) 3:25 any
GX (2st Hw)	(practice at 3/25) 3:25 only - project are 19/15 Zoom and
-Lalo 5 monday	
Agenda	
1. making predictions	alanac cole M
2. evaluating expensed	learning my stater code on website
3. Pythan	0
O. KNN Classitier	
What is?	
- training/testing ~~	training-known values, testing-
- K - # nergribors to	features-numeric attributes basel - Category of every object
1-making predictions Is superised learning	KNN: look at features, predict label
- So parisa de la	tues: k nearest to one tost obj
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	today: K nearst for see
Superised Learning 240 #3	today: K nearest for see
Slogistiz regression	of predictions
ve know: Linear regression	
x new x	- DII For y
x new x x y numer	c values for or - DII for y

≥ .5 yes/label C24 logistic regr is probabilistic: not cat 4.5 no/ not applied any superised learning... 1 - training 2 - fit 2= W, x, + W2 x2 + ... + Wn x, + 6 signoid function - squitnes 2 to 0-1 3 - testing/prediction Logistic regression (library) (n code (5 mms) - make all pressin FNN Gusting sklean - actual, predicted in train _test-split tusting data Logistic Repression metrics train.cov, test.csv - 211 data in one together - tell sklewn to broat into tmin/test X-train teatures - tomining y-train labels X-test teatures -> testing 4-test labels 5 ignored until evaluation; 2. Euzhvating Superised Learning LYKINI craevation: what makes best valve of k? eval = comptations, also need & zny supervised: some comparison of zotrae vs. predicted labels · hide retral large (y-test) recurry · compute predictions · See how well we did, precision > Fi siarc neall

read	\ ~ ?o ~ ?o ~ ?o	of this	ngs p ny lal ex la ex la		(abel A (pred) xadval A 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 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 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 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 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 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 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 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 x x x x x x x x x	
	Cø			prec, reven	prec, react cats	
name friendliness intelligence label predicted						
0 Sven	8	3 dog	dog	3/6 01/	2C. 78%	
1 Asteroid	3	7 cat	cat	200°, 7 19 75%	1010	
2 Zeke	9	2 dog	dog	prec: 414	od: 3/5	
3 Melvin	5	4 dog	cat		prec: 3/5	
4 Remy	6	6 dog	dog	(00 %)	(60°10	
5 Lady	5	7 dog	cat			
6 Cam	9	3 dog	dog	recall: 4/6	recall. 313	
7 Tito's	3	7 cat	cat		100%	
8 Bailey	3	7 cat	cat	6786		
za: 70% prety good!						
But stupid module, energthing is a day 6/91, reso pretly good						
Confusion matrix predicted						
		(at ac) 3 0 2 4	4	TP FN FP TN		