## For Coding Questions (2, 3.e , 5.b) refer to the link below: https://github.com/Arsham1024/Introduction\_ML/tree/master/Project2

1.a)	$accuracy = {T}$	TP + TN P + TN + FP + I	<sup>2</sup> N					
		Specta	di	Astigmatism	Tear	Lenses (groun	drest	
	Young Young Young	Hyper Hyper Myop opic Hyper	metrope metrope	Yes No	Normal Normal Reduced	Yes Yes	X FN	■ word  Example Connect
	Age Young Young Young Presby Presby Presby Presper Presper Presper	opic Hyper opic Myope opic Myope	metrope	No No Yes	Reduced Normal Reduced	Yes Yes No No No No No No No No No Yes No	Y TW Y TW Y TW Y TP Y TP	
	Prepre Prepre	opic Myope opic Myope sbyopic Myope sbyopic Myope	:	Yes No	Normal Reduced	Yes No	V TP	6/g = 75%.
TP								
T/	J = 4	accuracy	2+4+		8	. 0.75 =:	-757 <u>.</u>	
[.b)								
	Pr ecisi	$on = rac{TP}{TP +}$	$\frac{\overline{FP}}{}$	2 2 + 1		2 = 0.66c	5 => 67%.	7.
		11 1						
		$r = \frac{TP}{TP + }$	$\overline{FN}$		_ = 2	3 = 0.666	=> 67%	
		11 +	1-14					
F1-	Measur?							
	1-Meas	$are = \frac{2rI}{r + }$	D -	2(音)(音)	* * * * *	z 3 = 2 1 3		
		r +	P	3	× ×	. 3		

## 3.a) Lave-one-out / (LOD-CV) [NA

test case	Closest Neighbor	Distance	Prediction	True False	
0	3				y <b>1</b> 60
Ø		J2			
3		Ţ			
Ø					
6			+	Т	
0					x
Ø	5or6		+		
8					Error = number of wang predictions = E = 4 = 0.4 - 40%
9					total number of predictions
(0)		52			

3.b) LOO-C	V for BUN							
test case	Closest Neighbor	prediction	True/False					
3								
<u> </u>								
0								
Ø								
8				Error number of an	ong predictions	- 0.7	= 20%	
<u>a</u>				total number of pi	sedictions =	_ = _ = _ =		

3.C) 9NN		eighbous are all of	bur paints
3.C) QNN test case	prediction	Toud False	
<b>©</b>			
<u> </u>			
<u></u>			
6			
$\mathcal{O}$			
<b>B</b>			
			Ervar = number of crong predictions = 10 = 100%
(0)			Glad manufact of predictions [[]



