		Page No.
		Date
	Assignment AZ	- serioutive
	different classification decharaces	ACAULA
	Jitle: - K-NN dassification of rend gotton	
	tect data taple of to appropriate dass.	Chelana -
		V
	Brollin statement 1.2 minus miller	how worthand
	indicate Positive examples	let Mue circles.
	indicate Positive examples	and orange squares
	Indicate nigative pramples. V	Ve Want of use
	indicate negative examples. V K-NN algorithm for classify If Iz=3, find the the Point (6,6) - Extend the 3 distance - weighted KNN and	fing the points.
N. L.	JE S TIND MI	and consider the
	the point (6,6) - Extend was	1 locally weighted
Ya .	A Veraging.	willians IMA
	17 VPY09139.	ZVI MI DVII DVII DVII DVII DVII DVII DVII
	non Parametris Para learning	- H 13 a
		, it is also also
	Je learn about classific	ation trongues.
	- Jo learn about classifice - Jo implement the KNN of assign a test data (loss.	Janitum d
	De Oscian a test data	I tuple to appropriate
	class.	etlinen.
10	(X4SS)	
	Outcomes: vi Larie is aliminate somet	ib modibut 4
		Till I I I I I I I I I I I I I I I I I I
	- 1000 dillement classitical	tion techniques.
	To a larget the K-NNI a	lgorithm/
	- Learn different classifical - Implement the K-NN of - Assign test data typle to	Vappropriate doss.
	- HSIGN 1131 0012 19/20	
		- LA ranklyn: " " "
		F 2 X 300

students will be able to: - Learn different classification techniques.

- Implement the knew algorithm.

- Assign test data tuple to appropriate class. Out comes: Software and Hardware Requirements:

13/15/17 Gy Wit Processor Os Linux 64 hit Os Editor-gedit/ Eclipse.
Software- Jupyter Notrhook/Python. K Nu algorithm It is a non parametric lary learning algorithm. It can be used for Joth I classification and regression It is one of the simplest classification algorithm and still congire highly competitive results. Euclidean distance tormula is used in K-NN algorithm is givent mathematically as: d(xin) = (n-n2)2 + (91-42)21. Algorithm:

A	
	Page No.
	Date
1	Load the data
2	Initialize value of K Forgetting Predicted class, iterate all the training data Points
) tongetting predicted class iterate all the training date
	Points
	3. (alarate the distance detudes the fact late
	and lach training date point:
	3.2 Sort the calculated distances in ascerding
	order lased on distance values.
	3.4 Find the most prepart class of these points.
	3.4 Final the most present class of these prints
No.	
4	Return the predicted dass.
	2 dans or a
	Jest cose:
	: no cult no
	Given Points: (2,4) (4,2) (4,4) (4,6) (6,2)
	brings demi how book what relies some on
	K-11/1 algerilles than classification (4,3)1
	algerty state treet as a seat sate bothings and
	Jest point: (6,6)
	0.0
	\(\tau = 3
	1C = 3
NAME OF THE PARTY	
	Following talle gives the distance of given points from the test point and their classes.
	from the test point and their classes.
	(2,4) Negative d= 520 (4,2) Neg = 520
ele C	$(4,2) \qquad Nez \qquad = \sqrt{20}$
	(4,4) Post tive = J8
	
	$(4,6) \qquad Nrg = J4$ $(6,2) \qquad Pos \qquad = 516$
	(6,h), NPg, = 04