Aim: To duronstrak performing crossification on duta set

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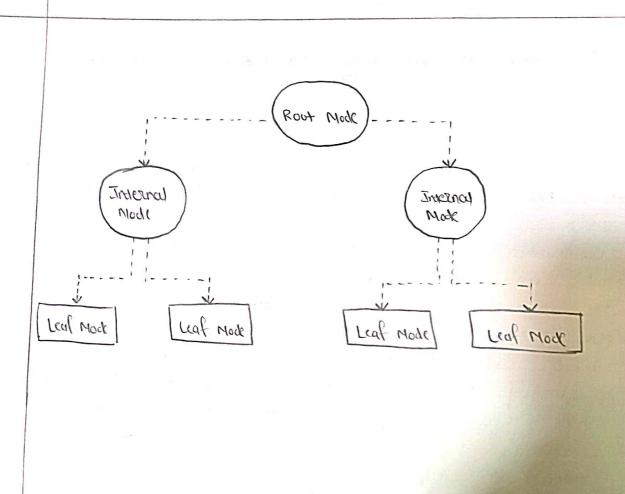
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Date: 15/02/2023

Practical No. 63

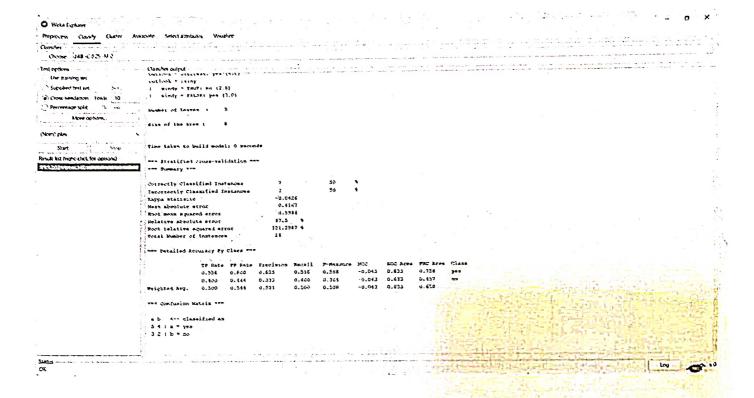
	nim: To demonstance performing clustification on duty sets.
	Theory:
	classification:
	classification in the process for finding a model that
	describe the data values and concept for the purpose of
	puediction
	classification in duta mining is a lowner technique that
	separates dua pant men different daves.
	It allows you to organize down set of an east, including
	tomplex and the dotasets as well as small and simples
	ones. It primarily involves using algorithms that you can
	easily modify to improve the data quality. The algorithm
	establishes the link between the scalables for predictions
	The algorithm you use for classification in data mining
_	in land the classifier and observations you make
	through the same are caused instances.
_	There are multiple type of classification algorithm, each with its
	unique functionality and application. All of those algorithm die
	used to extract day from a datater.
	DOZI MINING ALGORITHM FOX CLASSIFICATION:
	Decision Theep
-	· Logistic Regression
	· Naive Rayer Yourfrastion
_	o k - neurest neighbors
_	· Supporte vector maching.
	Decision Title:
_	A decision thee is a structure that includes a root nocle;
	branches and leaf nodes, tack internal node deposits a test on air

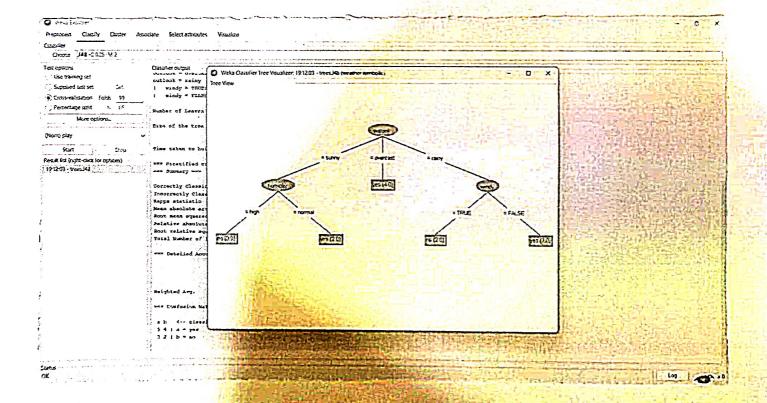




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	attribute, each branch denotes the autumn of a test and each
	leaf nock bolds a dan label. The topmost name in the take
_	who the soul node
	n decision there is a complication scheme to generate a
	true working of sout nake, internal nodes and orteinal nades.
	Rout rates impresenting the attributes. Internal nodes are also the
	all library tolothal mades the the chin and each branch represent
	the values of the attalbates.
	theire was also londoing set of sules for a given data set;
	there are two subjects in decision tree, one in a training
	data set and second one is a tenting data set.
	Training data set in previously charified data. Terting data set
	in ruly Generated data
	The benefits of having a decision tree are as forbus!
_	I does not required any dorrain knowledge.
	It is early to comprehend
	The teaming and consistentian exert of a decision there are
	Singh and fan
3-	- I've classification and its newson Tree
	- Chis algorithm 1.748
-	The Eus algo is a damification algo which provides dicision
	tries band on information theory. It is an extension of
	Ros Quintan's earlies To3 algorithm also known in well as
	JUS, I wanding for Java. The decision trees generated by
	cuis are used for classification, and for this recurrent
	U.5 in after referred to as a ratherical classifier.
	The TUB impomentation of the curs algo has many additional
	features including accounting for missing values adection
	tases pouring waterway attabile value range derivation
	of sule and of
	In WEKA, data mining tout, JUS in an open passable Java







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	implementation of the cus objection. In allows classification and either declinary brees or smess generated from them.
_	Enteroraging a diction true form training tubes of data partition of locustration of
_	associated class labels.
-	attibute-list the set of candidate attributes.
_	exiterion that been partitions that the duty rupes into individual
_	clances. This collection includes a splitting attition and either a
_	Output:
_	A Ordsion Tagg
_	wethod:
	Grafe a wafe M!
	of tuples in a are all of the same chas, a then
_	teturn of as real node labeled with class c;
	of anxipus - list as empty then
	return M as leaf ruck with labeled
	with majority class in 0; 11 majority voting.
	apply attabute selection method (0, attabute - 1/4)
	to tood the post solutions—contession;
	if splitting attribute in discrete walled and
	multiway spirt coloured then I no mentilicities to bigothy thees.

Remote :

Thur, the classification on nature set in performed by decision true (148) method.



	consider - 11th = phillips attribute 1/ remove splitting attribute
	for each origine i of splitting aterior
	Il contition the
	let 0; by the representations and grow subtrees for each partitions
	I a hospition
<u> </u>	of Di in empty then
	astach a reaf labored with the majority
	class in 1 to rock N's
	else cittach in a
	deliving the nock returned by Generate
	end for
	Leturn N's
	Remit:
	Thus the classification on both let as performed by decision
	tree (IUR) method.
	Vida Question:
0	what is capification?
<del></del>	Classification is the process for Entire
	the duta values and concept for the purpose of prediction
<u> </u>	
<u> </u>	The mad of dasification?
	The need of classification is to precurately predict the target
	class for each case in the godd It attains had to astains the
	well as small and simples ones
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	p.3	what are the different methods of charification?
	_V	Logistic zegzessian, maine Bayes, Decision tree 1/2 - near neighbours,
		clarifier, meta clarifier and so on.
<u>φ</u> .	ν (1) <	what cure the cholicontages of a decision tree countries?
		T+ dues not require any domain knowledge.
	3	The learning and charaffication steps of decision tree are simple and
	<b>(9</b> )	Len data preparation, Mun-parametric vernation , Mon-Linearity.
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