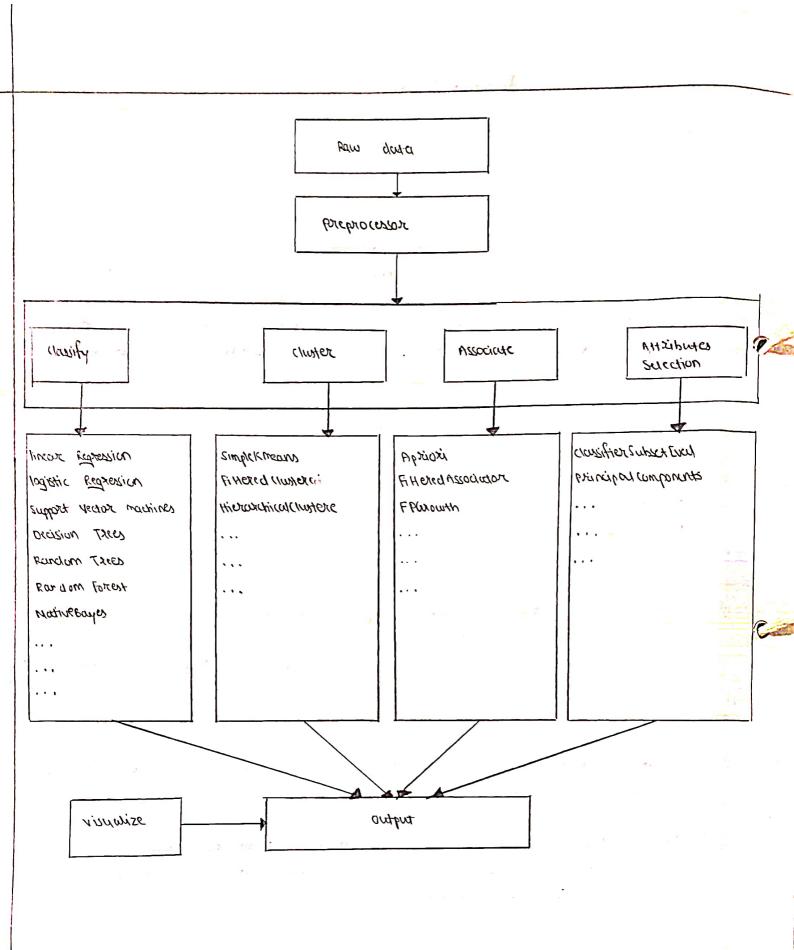
Nim: To build Dusc worknows and Explose WEKA.

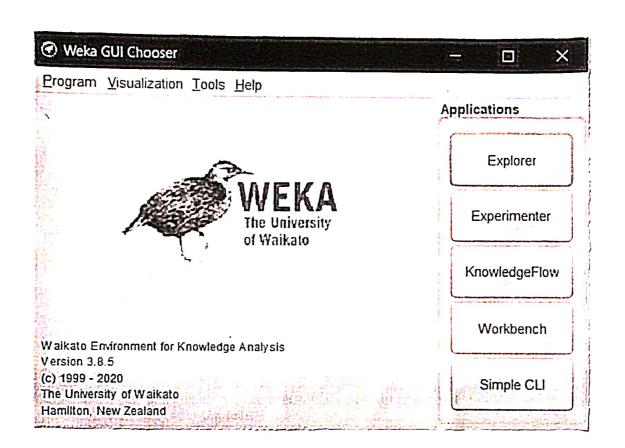


	Date:
	Bractical No.1
_	Aim: To build bakg warehouse and Explose WEKA.
	Theory:
	Data was house:
	data marchaning in the process of constructing and using a data marchaning in the process of constructing and using a data marchaning to some and the addression to the support analytical and marchaning and last addression, and decision making.  Add consolidations.
	Octa watchows characteristics:  Subject - oriented  Totagnated
	· Time - Variant
	Mess of Data watchouse:
	Business user: Business were sequise a data coardhouse to view summarized data from the post sing there people are non-technical, the data may be present to them in an elementary form.
E	Store historical data: Data watehouse in stegnisted to store the time hariable designs me past. This input in made to be used for yournament.
3	Matre strategic decision: Some strutegies may be depending upon the duty in the duty watehour. So, duty watehous contributes to making estrutegic decision.
17 7	Page No. ————





	For data consideral and quality: exinging the dead from different
	sources at accommunitarie, the wex can effectively undertake to bring me uniformity and anishency in desta
6	High response time: nota watchows how to be ready for demands a significant degree of flexibility and quick sesponse time.
	sensiti of pata watehouse:
0	understand buiness thends and mike better foreasting decisions.  ata varehours are designed to perform well enormous amount if
3	The statesture of data worknowns in more accessible for end-users to navigote, understand and query.
0	Queries that would be complex in many normalized databases
<u> </u>	tetta warehowing is an efficient method to manage demand for
	amount of hinterfaces duty.
	Explaing welca Tool:
1	WEKA an open source software provides took for data preparently,
	visualization took so that you can develop machine learning
	what well affer in summarized in the diagram -
	Page No. —————





	will understand that there are many of the image, you
	By day to make it single for many stages indealing with
_	
_	
_	
_	fields you use the data pres record
_	to chance the data preprincessing took provided in went
_	Then you would save me
	Storage for applying the preprocessed dusta in your local
	Mext, depending on all oxithms
	to develop any world a kind of the makes that you are taking
	for would select one of the votions such as doubt
	The Milkeline Sole of the Milkeline
	Selection of features to creates a reduced described.
	WERR provides the imprementation of several algorithms. You
	would select an algorithm of your choice, set the desisted
	parameters and sun it on the dataset.
_	Then were would give you the statistical autput of the
	model provening. It provides you a visualization tool to
	inspect the data.
	The various models can be applied on the same dataset.
	you can then compare the outputs of different models and
	Select the best that meets your purpose.
	Thus, the me of wekn results in quicker development
	of muchine leaving models on the whole.
	Now that we have seen what weeks in and what it does,
	in the next chapter let us leaso how to install week on your
	local computer.
_	
_	wester in a dada mining slow that wer a wheation of
	machine learning algorithmy. These algorithm can be applied directly
	to the data are called from the Java colleage No.
	II '



	Weka in a collection of tools for:
	· Regrenion
	· clustering
	• NEOCIATION
	· Data by - by or or just a partie of the parties o
_	· classification
_	· Visualisation wella application Interface.
_	There are totally five application interfaces available for well when
	we are were it will start the were invionance screen from where
_	we can open the weeka application interfaces Explosex preprocessing,
	attailbute selection, learning, virualization Experimented Testing and
_	evaluating machine learning algorithms knowledge Flow Visual design
	of KOD process simple command line A simple insertace for typing
	Commands .
_	
	were data formats:
	Weka uses the Attribute Relation file format for duta analysis.
-	by default. But listed below rate some formats that werea
	e outt . from where gold can be inhorted:
	• arff. 92 • xzff. 92
	· pri
	• (SV = V2) •
_	· dat
	· duta
	• Json
_	• 700.35
	• libsum
_	• <i>m</i>
_	• Numes Page No. ———————————————————————————————————



1	Date:
_	
	Arth Formule:
_	on salf fire contains two sections - headers and duta
_	· The header densities the attailment types.
_	• The duta section williams a writing segurated list of duta.
	An NRFF file requires the deducations of the relations.
-	
	O. relationi-
	This is the first line in cury ARTH file withten in the header
	Sections, bulowed by the relation I dataset name. The relation
	name must be a string and if it contains spaces, then it
-	Mark mart of distance and the
	should be enclosed between quotes.
-	
_	@ astribute:
- 2	These are declared with their names and the type are range
	in the headersections, well supports the following duta types
	for attributes:
	• Numeric
_	• < nominal -specification>
	· String
	· dute
	. @ daty - Defined in the nata section followed by the list of all
	duty Segments.
	Creating a student Table with the help of nota mining Tool wella:
	@ xelation students
	E marter areas
	@ attribute name { Sahil, Suraj, mayor, Prathamesh}
	@ uttribute rollno numeric
	@ waterbute exp { low, medium, high }
	@ cutionite gender (male, female)
	@ attribute phone numeric Page No. —

Lovery to Likely



		D data
		Sahil, 157, high, male, 80879
-		Sway, 162, medium, male, 70568
		Mayor , 147, 1000, female, 75896
		Brathamesh, 151, high, muc, 89645
		Conclusion:-
		Thus the training data table in wanted and wear tool is
£		arbosed.
-=		
		Viva Juestians:
		Define Duta Lacaebouse.
	<b>→</b>	It is a system used for reporting and data analysis and is
		souridered a was component of business interrigence. A datawarehouse
		in a subject odiented, Integrated, Mon- Volutile and time variant
		collection of data in support of managements decision making
		broces?
	-	
	3	what are the characteristics of bata watchowing?
		There are fixer characteristic of data werehowing and they are:
		a) Subject oriented () Time - variant
	_	5) Integrated d) Non - Whatile.
	3	what in weka Took and what are the significance of werka?
	-15(t	were in an open source software software.
	<b>€</b>	It is whertion of marking learning algorithms for day mining tasks.
	_3	welly contains tools for duty pre-processing a classification, regression,
	_	churtering, association studes and visualization,
	來	Significance of wekq!
	- 11	face auxiliability under grave ineneral public License Page No.



	Date:
	Postability, line it in fully impremented in Java programming language  A comprehensive collection of data preprocessing and modelling
	techniques.  Fax of use due to its graphical user interferes.
(C)	The use of WEKA results in quierer development of my models on the whole.
	·
	Page No