12/2	Experiment 3 Shashwat Shah
1.75	60004220126
	Div B (2-2
FO 14	de existe and conference or expendences to marginish
- 9 479	Aim: To implement Classification using Decision tree 103
5 .8	and Naive Bayes Algorithm.
-7-1	and the contract of the second
	Theory 1 It is a supervised learning technique that involves
	training a model to predict the class or category of
<u> </u>	instance based on their ottibutes.
	The model is consumed using a labelled destard where instance
70	are paired with their corresponding class cabels.
N	es - t worthough the man stronger of in this is
	During trainning it leaves decision boardonies rule that distinguis
	Setucen different Classes. Common models include decision the
	raine boyes SVM13 and k neasest mes reighborry.
	Evaluation metrics sum as accuracy precision and the
	conjusion motion are used.
	It finds application in diverse fields such as spom detection
	image recognition, medical dignors, audit survey.
1,	
	Decision trees - It is a structured tree like flowchart which
\parallel	onists of nodes represently decision points branches denoting
- 11	ossible outcomer, and leaves signifying final predicted classes.
	essione essenting that breaked construction
7	use are susceptible to overlyting which maybe nutigated
11	by techniques like privilege.
- 11	, -
	They are valued for their transparency.
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10	Naive Bayes! It is a probabilistic machine leasning algorith
	based on Bayes theorum. It opendes on assumption of
)	Jeathers independence where the impact of a positivelas
	Jeature of classification & considered independently of other
$-\parallel$	features. It performs well in text classification and
	span filtebing. It calculates the probability of an instance
	belonging to a partillar class given bits features
1	Values: Internal Little of the Control
	min result of they or whom a six out
	Conclusion: we compared 5 datosets and observed E
	that Naine Bayes classification has a higher accuracy
	then decision tree algorithm, we also used k- (ross
	validation & ensemble methods to enhance the occurracy-
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