Data Mining & Machine Learning

20 Marks Component

SL No. Tasks	
1. Regression Algorithms	
2. Regression Algorithms	
3. Apriori Algorithm	
4. Decision Trees	
1. $\mathbf{ID3} \rightarrow (\text{extension of D3})$	
2. $C4.5 \rightarrow (successor of ID3)$	
3. CART → (Classification And Regression Tree)	
4. CHAID → (Chi-square automatic interaction detection Performs	s multi-level
splits when computing classification trees)	
5. KNN Algorithm	
Use any one of the following Distance Measures	
1. Euclidean Distance	
2. Manhattan Distance	
3. Minkowski Distance	
4. Hamming Distance	
6. Support Vector Machines	
7. Naive Bayes	
Try to implement any one of the following variants	
1. Gaussian Naive Bayes	
2. Multinomial Naive Bayes	
3. Bernoulli Naive Bayes	
8. Clustering Algorithms	
Try to implement any one of the following algorithm.	
1. K-Means	
2. K-Mediods Use the dishetic detects Detect by https://www.keggle.com/yeiml/nime.ii	ndiana
Use the diabetic dataset: Dataset: https://www.kaggle.com/uciml/pima-indiabetes-database	naians-
9. Clustering Algorithms Try to implement any one of the following algorithm.	
1. DBScan	
2. Grid Based Clustering	
3. Mean-Shift Clustering	
Use the diabetic dataset: Dataset: https://www.kaggle.com/uciml/pima-in	ndians-
diabetes-database	nanans
10. Clustering Algorithms	
Try to implement any one of the following algorithm.	
Agglomerative Hierarchical Clustering	
2. Fuzzy C Means Clustering	
Use the diabetic dataset: Dataset: https://www.kaggle.com/uciml/pima-in	ndians-
diabetes-database	