

Naive Bayes & Advanced Algorithms

إجمالي النقاط 90/100

This assignment will challenge your understanding of Naive Bayes, Support Vector Machines (SVM), K-means, and Association Analysis.

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*:In Naive Bayes, the assumption of feature independence means ✓



Features are completely unrelated to each other ☐

Features are conditionally independent given the class ☒

Features have equal importance in classification ☐

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*:The Naive Bayes algorithm calculates probabilities using ✓



Maximum likelihood estimation ☒

Entropy-based splitting ☐

Mean squared error ☐

Information gain ☐



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*:SVM is a supervised learning algorithm used for ✕

Regression ☐Clustering ☐Classification ☒Association Analysis ☐

الإجابة الصحيحة

Classification ☒Regression ☒

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*:The objective of SVM is to ✓

Maximize information gain ☐Maximize margin between different classes ☒Minimize entropy ☐Minimize mean squared error ☐

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*:The kernel trick in SVM allows for ✓

Feature selection ☐Non-linear classification boundaries ☒Regularization ☐

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* :In SVM, support vectors are ✓



- Data points closest to the decision boundary ☒
- Data points in the training set with the highest weight ☐
- Misclassified data points ☐
- Centroids of each cluster ☐

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* :K-means is an example of a(n) ✓



- Supervised learning algorithm ☐
- Unsupervised learning algorithm ☒
- Reinforcement learning algorithm ☐

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* :The value of K in K-means refers to ✓



- The number of features in the dataset ☐
- The number of clusters to be formed ☒
- The number of iterations in the algorithm ☐
- The dimensionality of the data points ☐



10/10* The initialization of K-means algorithm can affect the final clustering result because ✓



- It determines the number of clusters ☐
- It influences the convergence of the algorithm ☒
- It affects the choice of distance metric ☐
- It determines the feature weights ☐

10/10 * The support of an itemset in association analysis is defined as ✓



- How frequent an item appears in the itemset. ☒
- The confidence of the association rule ☐
- The lift of the association rule ☐
- The length of the itemset ☐

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