

Machine Learning and Data mining

Serie 7. Evaluation

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1. Take the titanic dataset and using all attributes to predict the class ‘Survived’ with Decision tree, KNN, Naïve Bayes classifiers. (convert age and fare into classes ; exclude names from the attribute list)
Determine:
 - (a) Accuracy of the classifies with 5-fold CV
 - (b) Calculate theirs Precision, Recall and F1-score
2. Build Decision tree, KNN, Naïve Bayes models with your selected stock / market index using all attributes to predict ‘daily returns’. (‘daily returns’ must first be converted into a decision class that will be used as the target(label), all other attributes must be grouped into classes)
Determine:
 - (a) Accuracy of the classifies with 10-fold CV
 - (b) Calculate theirs Precision, Recall and F1-score