

Machine Learning and Data mining

Serie 8. Feature Selection

Prof. J. Savoy

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1. Take the titanic dataset and using all attributes to predict the class 'Survived' (convert age and fare into classes ; exclude names from the attribute list)
 - (a) Choose Three classifiers and evaluate their performance using all attributes;
 - (b) Define a feature selection method and use it on all the classifiers ;
 - (c) Compare the classifiers and explain the differences observed;
2. Build Decision tree model with your selected stock / market index using all attributes to predict 'daily returns'(decision). ('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)
 - (a) Choose Three feature selection methods to evaluate the model;
 - (b) Compare the feature selection methods and explain the differences observed;