| Submission sheet Assignment IV |
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| TASK 0: warm up |
| Number of instances: |
| Number of attributes: |
| Number of instances in each class: B M |
| TASK 1: basic k-NN classification |
| Accuracies (with confidence, where available): |
| 1) Holdout |
| 2) 10-fold cross-validation |
| 3) Leave-one-out |
| 4) 10-fold cross-validation, K=10 |
| TASK 2: data scaling |
| Accuracy after scaling: |
| TASK 3: Feature selection |
| Accuracy after feature selection: |
| List of relevant attributes: |
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| TASK 4: Combined approaches |
| Accuracy after rescaling and feature selection: |

TASK 5: PCA

| How many components are needed to explain 50% of the variance in the data? |
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| Accuracy, varying the number of components: |
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| TASK 6: optimizing the parameters – K |
| What is the best value for K among the ones you tested? |
| TASK 7: Decision tree |
| What is the number of nodes in the tree (min 20 instances per leaf)? |
| TASK 8: text data |
| What accuracy do you obtain with a 10-fold cross validation? |
| Have you found any text preprocessing operators or settings of the classifier leading to a better accuracy? Which ones? |
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| Have you found any text preprocessing operators or settings of the classifier that yo would have expected leading to a better accuracy, but in practice did not help? If ye can you explain why? |
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