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CSE 516 Machine Learning

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Lab 3

Exercise 2

|  |  |  |
| --- | --- | --- |
|  | Using training set | 10-fold cross validation |
| NaiveBayes | 92.8571 | 57.1429 |
| Ibk(KNN=2) | 64.2857 | 64.2857 |
| J48(M=1, no prun) | 100 | 78.5714 |

Exercise 3

|  |  |  |  |
| --- | --- | --- | --- |
|  | Test instance #1 | Test instance #2 | Test instance #3 |
| NaiveBayes | 57.1429 | 42.8571 | 42.8571 |
| Ibk (KNN=2) | 50 | 28.5714 | 50 |
| J48 (M=1,no prun) | 57.1429 | 28.5714 | 42.8571 |

Exercise 4

|  |  |
| --- | --- |
|  | 10-fold cross validation |
| NaiveBayes | 54.7667 |
| Ibk (KNN=3) | 56.3 |
| J48 (C=0.25,M=2) | 54.7333 |

It appears, for the data set, that IBk is the best algorithm to use for the BMW dataset.