## ID3 and C4.5 algorithm

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## scania

In this program I use scikit learn library but something that is my issue is that this library optimize dicision tree algorithm for ID3 and C4.5 so I use two different criterion first one is entropy and second one is gini and i use missing value to improve accuracy and replace them with average of data. scikit learn has lot of ready packages so i don't implement each of them by myself so i use them like confusion and classification result

Figure 1: scania output

## trucks

In this program since we don't have test and train data separatly i split phising data set in two parts test data and training data. 30% of data is testing data and rest of it belongs to training data. You can see scania.py and trucks.py in

this folder. If you have any advice or my program has a problem I would be glad if you tell me my program's defect.

Figure 2: trucks output