RESULTS ON DATASETS

ocinar1@remote05:~/ML$ python3 pruning.py training\_set.csv validation\_set.csv test\_set.csv yes gain

Using information gain heuristic for training:

XI=0:

| XH=0:0

| XH=1:

| | XB=0:0

| | XB=1:

| | | XN=0:0

| | | XN=1:

| | | | XK=0:0

| | | | XK=1:

| | | | | XC=0:1

| | | | | XC=1:0

XI=1:

| XH=0:

| | XP=0:0

| | XP=1:

| | | XT=0:0

| | | XT=1:

| | | | XG=0:

| | | | | XK=0:1

| | | | | XK=1:0

| | | | XG=1:0

| XH=1:

| | XC=0:

| | | XN=0:

| | | | XD=0:

| | | | | XP=0:

| | | | | | XF=0:

| | | | | | | XG=0:0

| | | | | | | XG=1:1

| | | | | | XF=1:

| | | | | | | XO=0:

| | | | | | | | XK=0:0

| | | | | | | | XK=1:1

| | | | | | | XO=1:1

| | | | | XP=1:0

| | | | XD=1:

| | | | | XU=0:

| | | | | | XG=0:0

| | | | | | XG=1:1

| | | | | XU=1:0

| | | XN=1:

| | | | XB=0:

| | | | | XL=0:0

| | | | | XL=1:

| | | | | | XR=0:

| | | | | | | XJ=0:1

| | | | | | | XJ=1:

| | | | | | | | XF=0:0

| | | | | | | | XF=1:1

| | | | | | XR=1:

| | | | | | | XM=0:0

| | | | | | | XM=1:

| | | | | | | | XE=0:1

| | | | | | | | XE=1:0

| | | | XB=1:

| | | | | XQ=0:1

| | | | | XQ=1:

| | | | | | XF=0:0

| | | | | | XF=1:

| | | | | | | XD=0:

| | | | | | | | XM=0:0

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| | XC=1:

| | | XB=0:

| | | | XG=0:

| | | | | XU=0:

| | | | | | XK=0:1

| | | | | | XK=1:0

| | | | | XU=1:0

| | | | XG=1:0

| | | XB=1:0

Accuracy for gain algorithm for training: 1.0

Accuracy for gain algorithm for validation: 0.9666666666666667

Accuracy for gain algorithm for test: 0.9533333333333334

ocinar1@remote05:~/ML$ python3 pruning.py training\_set.csv validation\_set.csv test\_set.csv yes variance

Using variance impurity heuristic for training:

XE=0:

| XH=0:

| | XI=0:0

| | XI=1:

| | | XC=0:0

| | | XC=1:

| | | | XB=0:

| | | | | XM=0:0

| | | | | XM=1:1

| | | | XB=1:0

| XH=1:

| | XI=0:

| | | XR=0:0

| | | XR=1:

| | | | XB=0:0

| | | | XB=1:

| | | | | XF=0:0

| | | | | XF=1:

| | | | | | XK=0:0

| | | | | | XK=1:1

| | XI=1:

| | | XC=0:

| | | | XB=0:

| | | | | XM=0:0

| | | | | XM=1:

| | | | | | XD=0:1

| | | | | | XD=1:0

| | | | XB=1:

| | | | | XR=0:

| | | | | | XD=0:

| | | | | | | XK=0:1

| | | | | | | XK=1:0

| | | | | | XD=1:0

| | | | | XR=1:

| | | | | | XL=0:1

| | | | | | XL=1:

| | | | | | | XD=0:

| | | | | | | | XP=0:1

| | | | | | | | XP=1:0

| | | | | | | XD=1:0

| | | XC=1:

| | | | XU=0:

| | | | | XG=0:

| | | | | | XB=0:1

| | | | | | XB=1:0

| | | | | XG=1:0

| | | | XU=1:0

XE=1:

| XI=0:

| | XL=0:

| | | XQ=0:

| | | | XG=0:0

| | | | XG=1:

| | | | | XB=0:0

| | | | | XB=1:1

| | | XQ=1:0

| | XL=1:0

| XI=1:

| | XH=0:

| | | XU=0:

| | | | XB=0:

| | | | | XF=0:0

| | | | | XF=1:1

| | | | XB=1:0

| | | XU=1:0

| | XH=1:

| | | XC=0:

| | | | XN=0:

| | | | | XD=0:

| | | | | | XP=0:

| | | | | | | XF=0:

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| | | | | | XP=1:0

| | | | | XD=1:

| | | | | | XU=0:

| | | | | | | XG=0:0

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| | | | XB=0:

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| | | | | | | XK=0:1

| | | | | | | XK=1:0

| | | | | | XU=1:0

| | | | | XG=1:0

| | | | XB=1:0

Accuracy for variance impurity algorithm for training: 1.0

Accuracy for variance impurity algorithm for validation: 0.9516666666666667

Accuracy for variance impurity algorithm for test: 0.9333333333333333

ocinar1@remote05:~/ML$ python3 pruning.py training\_set.csv validation\_set.csv test\_set.csv no gain

Accuracy for gain algorithm for training: 1.0

Accuracy for gain algorithm for validation: 0.9666666666666667

Accuracy for gain algorithm for test: 0.9533333333333334

ocinar1@remote05:~/ML$ python3 pruning.py training\_set.csv validation\_set.csv test\_set.csv no variance

Accuracy for variance impurity algorithm for training: 1.0

Accuracy for variance impurity algorithm for validation: 0.9516666666666667

Accuracy for variance impurity algorithm for test: 0.9333333333333333

ocinar1@remote05:~/ML$ python3 pruning.py training\_set2.csv validation\_set2.csv test\_set2.csv yes gain

Using information gain heuristic for training:

XI=0:

| XU=0:

| | XQ=0:

| | | XF=0:

| | | | XO=0:

| | | | | XB=0:

| | | | | | XJ=0:0

| | | | | | XJ=1:

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| | | XF=1:0

| | XQ=1:

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| | | | | XG=1:

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| | XG=1:0

XI=1:

| XK=0:

| | XC=0:

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| | | | | | | XE=1:1

| | | | | XF=1:

| | | | | | XP=0:1

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| | | | | | | XH=0:1

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| | | | | | XM=1:

| | | | | | | XQ=0:

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| | | | | XJ=1:

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| | | XD=1:

| | | | XF=0:0

| | | | XF=1:

| | | | | XO=0:0

| | | | | XO=1:

| | | | | | XP=0:0

| | | | | | XP=1:1

| XK=1:

| | XD=0:

| | | XT=0:

| | | | XF=0:

| | | | | XB=0:

| | | | | | XR=0:0

| | | | | | XR=1:

| | | | | | | XO=0:1

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| | | | | | | | XL=0:1

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| | | | | XB=1:

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| | | | | | | | XQ=0:1

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| | XD=1:0

Accuracy for gain algorithm for training: 0.9983333333333333

Accuracy for gain algorithm for validation: 0.7716666666666666

Accuracy for gain algorithm for test: 0.725

ocinar1@remote05:~/ML$ python3 pruning.py training\_set2.csv validation\_set2.csv test\_set2.csv yes variance

Using variance impurity heuristic for training:

XI=0:

| XU=0:

| | XQ=0:

| | | XF=0:

| | | | XO=0:

| | | | | XB=0:

| | | | | | XJ=0:0

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| | | | | | XH=1:1

| | | XF=1:0

| | XQ=1:

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| | | | | XG=1:

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| | | | | | | XS=0:0

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| | | | | XT=1:

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| | | | | | XF=0:

| | | | | | | XP=0:

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| | XD=1:0

Accuracy for variance impurity algorithm for training: 0.9983333333333333

Accuracy for variance impurity algorithm for validation: 0.7716666666666666

Accuracy for variance impurity algorithm for test: 0.725

ocinar1@remote05:~/ML$ python3 pruning.py training\_set2.csv validation\_set2.csv test\_set2.csv no gain

Accuracy for gain algorithm for training: 0.9983333333333333

Accuracy for gain algorithm for validation: 0.7716666666666666

Accuracy for gain algorithm for test: 0.725

ocinar1@remote05:~/ML$ python3 pruning.py training\_set2.csv validation\_set2.csv test\_set2.csv no variance

Accuracy for variance impurity algorithm for training: 0.9983333333333333

Accuracy for variance impurity algorithm for validation: 0.7716666666666666

Accuracy for variance impurity algorithm for test: 0.725