# ALL AML

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----------- Start date and time ------------

----------- 08-Aug-2020 19:29:35 -------------

++++++++ Unsupervised Feature Selection ++++++++

database ALL\_AML, d=7128, n=72, n\_class 2

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1:

UFFS with parameters :

Preranking = [variance variance variance ] DepthMax = 2,

SelectionThresholds = [0.999 1.000 1.000 ]

NormEpsilon = [0.001 0.001 0.000 ] Cluster sizes= [3000 50 31 10 ]

data ALL\_AML :Average Accuracies:

all features: 94.3,

d\_non\_red=39.0 UFFS: 94.6, LP: 94.7, MCFC: NaN, UDFS: 82.3

----------- End date and time ------------

----------- 08-Aug-2020 19:52:43 -------------

# Data 1 - covertype

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----------- Start date and time ------------

----------- 07-Aug-2020 20:45:55 -------------

++++++++ Unsupervised Feature Selection ++++++++

database data1, d=46, n=581, n\_class 2

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1: UFFS with parameters : Preranking non DepthMax 3, Cluster sizes= [46 50 31 10 ]

data data1 :Average Accuracies:

all features: 75.6,

d\_non\_red=34.0 UFFS: 76.9, LP: 72.8, MCFC: 72.3, UDFS: 72.0

----------- End date and time ------------

----------- 07-Aug-2020 20:46:09 -------------

# Data 5 - breastcancer

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----------- Start date and time ------------

----------- 08-Aug-2020 13:19:55 -------------

+++++++ Unsupervised Feature Selection ++++++++

database data5, d=10, n=683, n\_class 2

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1: UFFS with parameters : Preranking non DepthMax 3, Cluster sizes= [10 50 31 10 ]

data data5 :Average Accuracies:

all features: 96.3,

d\_non\_red= 7.0 UFFS: 95.8, LP: 96.1, MCFC: 97.1, UDFS: 96.5

----------- End date and time ------------

----------- 08-Aug-2020 13:19:55 -------------

# Data 6 – australian

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----------- Start date and time ------------

----------- 07-Aug-2020 20:46:09 -------------

++++++++ Unsupervised Feature Selection ++++++++

database data6, d=14, n=690, n\_class 2

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1: UFFS with parameters : Preranking non DepthMax 3, Cluster sizes= [14 50 31 10 ]

data data6 :Average Accuracies:

all features: 84.9,

d\_non\_red=11.0 UFFS: 85.2, LP: 85.8, MCFC: 85.7, UDFS: 85.5

----------- End date and time ------------

----------- 07-Aug-2020 20:46:10 -------------

# Data 8 - svmguide3

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----------- Start date and time ------------

----------- 07-Aug-2020 20:52:58 -------------

++++++++ Unsupervised Feature Selection ++++++++

database data8, d=21, n=1243, n\_class 2

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1: UFFS with parameters : Preranking non DepthMax 3, Cluster sizes= [21 50 31 10 ]

data data8 :Average Accuracies:

all features: 80.2,

d\_non\_red=12.0 UFFS: 80.2, LP: 78.8, MCFC: 78.0, UDFS: 76.7

----------- End date and time ------------

----------- 07-Aug-2020 20:53:00 -------------

# Data 13 - musk

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----------- Start date and time ------------

----------- 07-Aug-2020 21:06:14 -------------

++++++++ Unsupervised Feature Selection ++++++++

database data13, d=166, n=476, n\_class 2

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1: UFFS with parameters : Preranking non DepthMax 3, Cluster sizes= [166 50 31 10 ]

data data13 :Average Accuracies:

all features: 92.2,

d\_non\_red=35.0 UFFS: 85.7, LP: 84.5, MCFC: 84.2, UDFS: 80.0

----------- End date and time ------------

----------- 07-Aug-2020 21:07:54 -------------

# lymphoma

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----------- Start date and time ------------

----------- 08-Aug-2020 20:17:21 -------------

++++++++ Unsupervised Feature Selection ++++++++

database lymphoma, d=4026, n=96, n\_class 9

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1:

UFFS with parameters :

Preranking = [variance variance variance ] DepthMax = 2,

SelectionThresholds = [0.999 1.000 1.000 ]

NormEpsilon = [0.001 0.001 0.000 ] Cluster sizes= [3000 50 31 10 ]

data lymphoma :Average Accuracies:

all features: 87.5,

d\_non\_red=52.0 UFFS: 85.4, LP: 81.2, MCFC: NaN, UDFS: 81.2

----------- End date and time ------------

----------- 08-Aug-2020 20:22:38 -------------

# Lung

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----------- Start date and time ------------

----------- 08-Aug-2020 19:43:29 -------------

++++++++ Unsupervised Feature Selection ++++++++

database lung, d=3312, n=203, n\_class 5

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1:

UFFS with parameters :

Preranking = [variance variance variance ] DepthMax = 2,

SelectionThresholds = [0.999 1.000 1.000 ]

NormEpsilon = [0.001 0.001 0.000 ] Cluster sizes= [3000 50 31 10 ]

data lung :Average Accuracies:

all features: 94.6,

d\_non\_red=114.0 UFFS: 94.6, LP: 93.6, MCFC: NaN, UDFS: 93.1

----------- End date and time ------------

----------- 08-Aug-2020 19:49:26 -------------

# TOX-171

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----------- Start date and time ------------

----------- 13-Aug-2020 00:29:41 -------------

++++++++ Unsupervised Feature Selection ++++++++

database TOX-171, d=5748, n=171, n\_class 4

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1:

UFFS with parameters :

Preranking = [non variance variance ] DepthMax = 2,

SelectionThresholds = [0.9995 0.9995 0.9900 ]

Cluster sizes= [1000 50 31 10 ]

data TOX-171 :Average Accuracies:

all features: 0.0,

d\_non\_red=256.0 UFFS: 89.5, LP: 81.3, MCFC: 82.4, UDFS: 79.0

----------- End date and time ------------

----------- 13-Aug-2020 01:03:18 -------------

parameters: Train/Test Splite: 0 k\_fold=5, cross\_validate\_run=1: parameters: Train/Test Splite: 0

# Isolet

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----------- Start date and time ------------

----------- 10-May-2020 05:48:21 -------------

++++++++ LP + orthogonalization ++++++++

database Isolet, d=617, n=1560, n\_class 26

parameters: n\_run=2, n\_redundant\_threshold= 1-0.050000, norm\_epsilon = 0.001000, k\_fold=5, cross\_validate\_run=1: ---- n\_redundant\_threshold3= 1-0.001000, norm\_epsilon3 = 0.000100

data Isolet :Average Accuracies:

all features: 0.0,

d\_non\_red=518.0 depth 1: 92.2, LP: 91.9, MCFC: 91.6, UDFS: 91.8

d\_non\_red=403.0 depth 2: 92.3, LP: 90.4, MCFC: 91.0, UDFS: 91.0

d\_non\_red=309.5 depth 3: 91.7, LP: 88.6, MCFC: 90.1, UDFS: 90.2

----------- End date and time ------------

----------- 10-May-2020 07:07:04 -------------

# COIL20

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----------- Start date and time ------------

----------- 09-May-2020 21:33:56 -------------

++++++++ LP + orthogonalization ++++++++

database COIL20, d=1024, n=1440, n\_class 20

parameters: n\_run=3, n\_redundant\_threshold= 1-0.050000, norm\_epsilon = 0.001000, k\_fold=5, cross\_validate\_run=1: ---- n\_redundant\_threshold3= 1-0.001000, norm\_epsilon3 = 0.000100

data COIL20 :Average Accuracies:

all features: 0.0,

d\_non\_red=831.0 depth 1: 99.0, LP: 99.6, MCFC: 98.3, UDFS: 98.6

d\_non\_red=529.3 depth 2: 98.6, LP: 99.5, MCFC: 96.6, UDFS: 98.9

d\_non\_red=331.3 depth 3: 98.8, LP: 98.9, MCFC: 94.0, UDFS: 98.0

----------- End date and time ------------

----------- 09-May-2020 23:04:06 -------------