

# Data Mining



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Under Guidance: Dr.BFM

Upload dataset here



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iris.csv 3.9KB



## Dataset loaded Table

	sepal.length	sepal.width	petal.length	petal.width	variety
0	5.1000	3.5000	1.4000	0.2000	Setosa
1	4.9000	3.0000	1.4000	0.2000	Setosa
2	4.7000	3.2000	1.3000	0.2000	Setosa
3	4.6000	3.1000	1.5000	0.2000	Setosa
4	5.0000	3.6000	1.4000	0.2000	Setosa
5	5.4000	3.9000	1.7000	0.4000	Setosa
6	4.6000	2.4000	1.4000	0.3000	Setosa
7	5.0000	3.4000	1.5000	0.2000	Setosa
8	4.4000	2.9000	1.4000	0.2000	Setosa
9	4.9000	3.1000	1.5000	0.1000	Setosa
10	5.4000	3.7000	1.5000	0.2000	Setosa
11	4.8000	3.4000	1.6000	0.2000	Setosa
12	4.8000	3.1000	1.4000	0.1000	Setosa

Select Assignment

- ☐ Assignment No.1
- ☐ Assignment No.2
- ☐ Assignment No.3 and 4
- ☐ Assignment No.5
- ☐ Assignment No.6
- ☒ Assignment No.7

# Assignment 7

```
[
  0 : "Class Name"
  1 : "handicapped-infants"
  2 : "water-project-cost-sharing"
  3 : "adoption-of-the-budget-resolution"
  4 : "physician-fee-freeze"
```

```
5 : "el-salvador-aid"  
6 : "religious-groups-in-schools"  
7 : "anti-satellite-test-ban"  
8 : "aid-to-nicaraguan-contras"  
9 : "mx-missile"  
10 : "immigration"  
11 : "synfuels-corporation-cutback"  
12 : "education-spending"  
13 : "superfund-right-to-sue"  
14 : "crime"  
15 : "duty-free-exports"  
16 : "export-administration-act-south-africa"  
]
```

At Max Rules to be Generated: 128878020

Attributes: 17

- ▶ [ 0 - 100 ]
- ▶ [ 100 - 200 ]
- ▶ [ 200 - 232 ]

- ▶ [ 0 - 100 ]

- ▶ [ 100 - 200 ]
- ▶ [ 200 - 232 ]

Init: 16

Result:

L9:

## Rules Generation

```
frozenset({'religious-groups-in-schools', 'education-spending', 'water-project-cost-sharing',  
'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze',  
'superfund-right-to-sue', 'el-salvador-aid', 'crime'})
```

1['religious-groups-in-schools', 'water-project-cost-sharing', 'export-administration-act-south-africa',  
'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid',  
'education-spending'] -> ['crime'] = 87.5%

2['crime'] -> ['religious-groups-in-schools', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] = 4.697986577181208%

3['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'education-spending'] -> ['el-salvador-aid'] = 100.0%

4['el-salvador-aid'] -> ['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'education-spending'] = 5.46875%

5['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'el-salvador-aid', 'education-spending'] -> ['superfund-right-to-sue'] = 100.0%

6['superfund-right-to-sue'] -> ['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'el-salvador-aid', 'education-spending'] = 5.511811023622047%

7['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] -> ['physician-fee-freeze'] = 87.5%

8['physician-fee-freeze'] -> ['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'export-

administration-act-south-africa', 'synfuels-corporation-cutback', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] = 6.1946902654867255%

9['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] -> ['synfuels-corporation-cutback'] = 25.0%

10['synfuels-corporation-cutback'] -> ['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] = 8.75%

11['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'physician-fee-freeze', 'synfuels-corporation-cutback', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] -> ['export-administration-act-south-africa'] = 70.0%

12['export-administration-act-south-africa'] -> ['religious-groups-in-schools', 'crime', 'water-project-cost-sharing', 'physician-fee-freeze', 'synfuels-corporation-cutback', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] = 3.7037037037037033%

13['religious-groups-in-schools', 'crime', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] -> ['water-project-cost-sharing'] = 77.77777777777779%

14['water-project-cost-sharing'] -> ['religious-groups-in-schools', 'crime', 'export-administration-act-south-

africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] = 6.5420560747663545%  
15['religious-groups-in-schools', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid', 'crime'] -> ['education-spending'] = 87.5%

16['education-spending'] -> ['religious-groups-in-schools', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid', 'crime'] = 6.481481481481481%

17['crime', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] -> ['religious-groups-in-schools'] = 100.0%

18['religious-groups-in-schools'] -> ['crime', 'water-project-cost-sharing', 'export-administration-act-south-africa', 'synfuels-corporation-cutback', 'physician-fee-freeze', 'superfund-right-to-sue', 'el-salvador-aid', 'education-spending'] = 4.697986577181208%

Select value of alpha

5

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choosing:



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- 16

17

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