Under Guidance: Dr.BFM

Upload dataset here

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iris.csv 3.9KB ✕

Dataset loaded Table

	sepal.leng	sepal.wid	petal.leng	petal.wid	variety
76	6.8000	2.8000	4.8000	1.4000	Versico
77	6.7000	3.0000	5.0000	1.7000	Versico
78	6.0000	2.9000	4.5000	1.5000	Versico
79	5.7000	2.6000	3.5000	1.0000	Versico
80	5.5000	2.4000	3.8000	1.1000	Versico
81	5.5000	2.4000	3.7000	1.0000	Versico
82	5.8000	2.7000	3.9000	1.2000	Versico
83	6.0000	2.7000	5.1000	1.6000	Versico
84	5.4000	3.0000	4.5000	1.5000	Versico
85	6.0000	3.4000	4.5000	1.6000	Versico
86	6.7000	3.1000	4.7000	1.5000	Versico
87	6.3000	2.3000	4.4000	1.3000	Versico
88	5.6000	3.0000	4.1000	1.3000	Versico
89	5.5000	2.5000	4.0000	1.3000	Versico

Select Assignment

○ Assignment No.1

○ Assignment No.2

◉ Assignment No.3 and 4

○ Assignment No.5

Assignment 3

Information gain

Gini Index

Gini index

target feature: variety

descriptive_feature: sepal.length

split criterion: gini

remaining impurity: `0.319906`

information gain: `0.347094`

sepal.length Gini index: 0.347094

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target feature: variety

descriptive_feature: sepal.width

split criterion: gini

remaining impurity: `0.4673770000000004`

information gain: `0.199623`

sepal.width Gini index: 0.199623

```
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target feature: variety

descriptive_feature: petal.length

split criterion: gini

remaining impurity:  0.062679

information gain:  0.604321
```

petal.length Gini index: 0.604321

```
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target feature: variety

descriptive_feature: petal.width

split criterion: gini

remaining impurity:  0.062712

information gain:  0.604288
```

petal.width Gini index: 0.604288

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Maximum Gini index is : 0.604321 for feature petal.length

Decision Tree

Made with Streamlit