

Introduction to Decision Trees - Module 5 Lab 2 Quiz

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Points: 10/10

1. What is true about entropy? (select all that apply)
(2/2 Points)

- ☒ larger for larger heterogeneity in a system ✓
- ☒ Concave for all the classes for $P_i = 0$ to 1 ✓
- ☐ Convex for all the classes for $P_i = 0$ to 1
- ☐ larger for more homogeneity in a system

2. When there are two classes C1, and C2, (select all that apply)
(2/2 Points)

- ☒ Entropy is maximum when $P_1 = 0.5$ ✓
- ☒ Entropy is minimum when $P_2 = 1.0$ ✓
- ☐ Entropy is maximum when $P_1 = 1.0$
- ☐ Entropy is minimum when $P_2 = 0.5$

3. Decision trees are: (select all that apply)
(2/2 Points)

- ☒ Supervised Learning algorithm ✓
- ☐ Unsupervised Learning Algorithm
- ☐ Parametrized Learning Algorithm
- ☒ Non-parametric Learning Algorithm ✓

4. Decision Trees once made, can be implemented using simple if-then-else statements.
(2/2 Points)

- ☒ True ✓
- ☐ False

5. Decision tree boundaries can be of any shape and size
(2/2 Points)

- ☐ True: That is why they are so powerful classifiers and regressors
- ☒ False: Their decision boundary can only be parallel to the input feature axes ✓

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