CSE 5693 Machine Learning

HW2 Decision Tree Learning

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Written Assignment

1. 2.4

Instance space consist of integer points in x, y plane and H is the set of hypotheses consisting of rectangles. The hypotheses are of the form a ≤ x ≤ b, c ≤ y ≤ d where a, b, c, and d are integers.

* 1. What is the S boundary of the version space?

S: 4 ≤ x ≤ 6, 3 ≤ y ≤ 5

* 1. What is the G boundary of the version space?

G: 2 ≤ x ≤ 9, 1 ≤ y ≤ 8

* 1. Suggest x, y instance

P: x = 7, y = 6

1. 2.7
2. 3.4
3. Play Tennis
4. Programming assignment discussion