

24-787: Machine Learning and Artificial Intelligence for Engineers

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Homework 5

Due: Feb 24 2024

Concept Questions:

Problem 1

Feature x_2 should be used in the first node of the decision tree.

Problem 2

Data set D_1 is the most impure with the highest Gini score (0.62).

Problem 3

Function 3 ($f(x) = 3$).

Problem 4

Model 1 is more likely to accurately predict unseen, in range, test samples.