





Print Entropy of Feature Y

FUNDAMENTALS OF DATA SCIENCE Discussion Assignments Week 5 Discussion Assignment 2: Decision Trees - Entropy



Entropy of Feature Y

Created by Yoganand Lankapalli on Oct 27, 2022 11:36 PM 📥 Subscribed

(3) feature
$$Y$$

1

2

0

A:25:0

A:05:?

Extrapy of the parest node $(-2/4)\log_2(2/4) - (2/4)\log_2(2/4)$
 $= (-1/2)\log_2(1/2) - (1/2)\log_2(1/2)$
 $= 1$
 $E_1 = (-2/2)\log_2(2/2) + (-2/2)\log_2(0/2)$
 $= 0$
 $E_2 = -(-0/2)\log_2(0/2) - (-2/2)\log_2(0/2)$
 $= 0$

Gain of the feature $Y = E_0 - E_1$
 $= 1 - 0$
 $= 1$

No items found.			