The dataset contain 4 low and 4 High Ricklevel

= I ([4;4]) = -4 (og 4 - 4 log 4 = 1)

Split at 6.50, we Codit some = (50, we have: 4.
- left subset: (Credit score (650) = 10: [2, 4, 6,8): 4 high

Information gain I (0:11) = 0

- Right Subset (Credit Scare > 650) = ID:[1,3,5,7]:4 600

JE([11:0]) = 0

IE (EO: 11] [11,0]) = 0

=> Information gain of the split:

IG=IE([h: 4]) = - IE([o, 4], [h:,0]: 1-0=1

If hi Then split at Credit Soure = 650 is good because. We can clearly splitting classify two type of Ricklevel

	Ngay .
aughion 2	
oc = Credit Score	I DE MARKET TO A STATE OF THE S
mean of Credit Score =	₹ = 685.
variance of dataset. V(5): 1 \(\frac{1}{N} \) (:	
1 5 ($\alpha_{i} = (685)^{i} = 35.75$
2/. 13.00 (D. C.	
Split dataset at a =7 left subser (age V(left) = 1 Short	age = 35 (35): [1,2,4,6, 8.]
5 cyr = 648 mg / 12 2 /	1 (x; -x _{lqt}). 2 (x; -648) = 1576.
- Right Subset: (age 2 - 746 6: V(Sanht): 1 1	$(35).[3, 5, 7]$ $(3; -)46, (3)^{2} - 827, 22$
Weighted Vaniance when	
- 5,15 Variana Reduction = 1	$576 + \frac{3}{8}$ $827,22 = 1293,331.$ $V(4) - V_4(5) = 3575 - 1293,33$ = 7281,69 = 2281,67
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