The lomber for entrupy is:

where P, & P2 are the Proportion of each das

Low Pisk: 4 instances (D: 63,5,7) High Cisk: 1 infances (D: 2,1.6,8)

+1(1) - - (\$104. \$+ \$ log_\$)

crafit Scane > 690

LOW RUL: 9

High Ciskio

Credit Geore 6550

LON RIGETO

High Right: 1

Auro: 2_ 1g. 1/c = 25 10-71, 2.14 Ry Meron instancial Vanionee - KE (40-0) Q = 720 +690 +790 +600+780+6/30+710+6/0 5420 - 655 0- (120-1557) - (50-659) (4000-100) - (100-120) + (100-120) - (100-120) 4(70-600)4 (CAD-607) а 6 - 28140 - 3475 Ly types 39 といというもいろへら Charlit 80 mes : \$ 720,639,6004 TL= 720+690+600 = 1970 = 696-67 -(120-CHE-CI) T (CHO-PET-CI) + (CON-PAC-CI) = (63.33) + (-667) + (-96.67) - 4000807 + 14. 49 + 72569 - 725707-212002

Compute Variance

Lg Age > 35

3 v bled \$ 3.5.6,7,8 &

Chedit Scales \$ 700,784,630,710.640 }

ap - 750+780+630+710+640 - 702

Variance

8 - (750-702) + (780-702) + (630-702) + (10-702) + (670-702) + (63

weightedvanimae:

Weighted Variance = 36 × 2410-02+6/8 × 3426 -0.375 × 2410-02+0 6012 3426 = 30072-13

compute Vaniance Reduction:

Vaniance Reductions 3775-3092-13 = 482.87

	madil seme.	Education	Cifferent
	640	1-1	wigh
*61	(,d.2)	17_	#igh
69	630	И	migh
33	GAO	12_	4igh

Age Range: 2.8.33

constit scane: Believen 600-650

Education: Mostly 12 on 19

Agre chedithe Education (missing missing

To has a night Probability of being High Risk

aus: 04

Accord using linear regussion $\hat{\gamma} = 0_0 + 0_1 \times$

where

- . I is the medicted credit-score
- · a is the input Pertune (Age)
- * 0, 500 (initial intercept)
- · 0, 3 (initial slape)

Fredicted of a news xAgei

1 D	Agre	У	Kerc)
1	3 5	720	900+ 5(3A) = 675
2	2-8	650	540+5(28)= 640
3	45	750	500+5(49)-725
4	31	600	50015 (31) = 655
5	52	780	500+5(52) =760
,	20)	630	500+5(29) = 649
6		710	500+5(42)=710
7	42		500+5(33)=669
8	33	640	12.4