The dataset contain 4 low and 4 High Risklevel = I ([4:4]) = -4 log 4 - 4 log 4 = 1

Split at 6.50, we Credit some = (50, we have: 4.

Left Subset: (Credit score (6.50) = ID: [2, 4, 6,8): 4 high

Information gain I(0:41) = 0

- Right Subset (Credit Scare > 650) = ID:[1,3,5,7]:4 600 I ([11,0]) = 0

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

=> Information gain of the spit: IG=IE([h:4]) = - IE([v.4], [h:v]:1-v=1

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