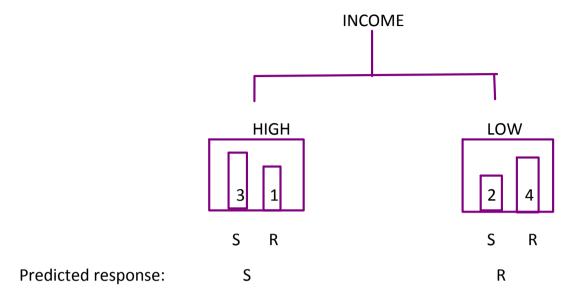
RESIDUAL MEAN DEVIANCE:



Let us calculate the Deviance for every node.

Deviance =
$$-2 \Sigma \Sigma n_{mk} 2 log P_{mk}$$

m k

High: Deviance =
$$-2 [3 log 3/4 + 1 log 1/4]$$

Low: Deviance = $-2 [2 log 2/6 + 4 log 4/6]$

For every node this deviance is calculated such that calculate the average of all the deviances in a tree.

'n' is the number of observations in the data and To is the total number of leaves