Tolo way split for age which is an ordinal catagorical value so we only have two options. A < 25 + 255 A 535 = A 535
Age A \ 35 A > 35
N = 3 2 $A \le 35$ $Ginii = 1 - \frac{6}{9}^2 - \frac{3}{9}^2 = 0.44$
A 735! $\frac{3}{5}^2 - \frac{2}{5}^2 = 0.48$ $6ini = 1 - \frac{3}{5}^2 - \frac{2}{5}^2 = 0.48$ $A \vee g \in Gini = 0.44 \times \frac{1}{14} + 0.48 \times \frac{1}{14} = \left[0.45\right]$
Age A < 25 A \ 25 10 2 7 10 3 2
A
AVBGini = 0,48x = + 0.34x = 10.39
we found multi split Average Gini to equal = 0.34 Which is less than both ways of the Two way splits
0.34 < 0.45 & 0.34 < 0.39 Ne choose multisplit





