

United States Census Bureau (USCB)

1: Is there a relationship between age and income?

No ,as after analysing the data I found that the age factor can't only affect the income and there are many factors have relationship with income such as the capital gain and capital loss

The average age= 39.0

The average capital.gain = 1053.0

The average capital.loss = 134.0

*people who their income <=50k

The average age= 37.0

The average capital.gain = 147.0

The average capital.loss = 73.0

*people who their income <=50k and their capital gain =0

The average age= 37.0

The average capital.gain=0

The average capital.loss = 76.0

*people who their income <=50k and their capital gain >0

The average age= 42.0

The average capital.gain=3553.0

The average capital.loss = 0.0

*people who their capital gain =0 and capital.loss=0

The average age=36.0

The average capital.gain=0.0

The average capital.loss = 0.0

*people who their capital gain =0 and capital.loss>0

The average age= 39.0

The average capital.gain= 0.0

The average capital.loss =1853.0

*people who their capital gain >0 and capital.loss=0

The average age= 42.0

The average capital.gain=3553.0

The average capital.loss = 0.0

*people who their income >50k

The average age= 44.0

The average capital.gain 3749.0

The average capital.loss =315.0

*people who their income >50k and their capital gain =0

The average age= 44.0

The average capital.gain= 0.0

The average capital.loss = 394.0

*people who their income >50k and their capital gain >0

The average age= 45.0

The average capital.gain= 18731.0

The average capital.loss = 0.0

*people who their capital gain =0 and capital.loss=0

The average age= 44.0

The average capital.gain= 0.0

The average capital.loss = 0.0

*people who their capital gain =0 and capital.loss>0

The average age= 45.0

The average capital.gain= 0.0

The average capital.loss = 2014.0

*people who their capital gain >0 and capital.loss=0

The average age= 45.0

The average capital.gain= 18731.0

The average capital.loss = 0.0

2: Can we say that we have achieved gender equality?

After analysing the data I found the following:-

- The number of Males= 22424 with ratio 67.2 %
and number of Females=10908 with ratio 32.7%
- Number of males whose income >50K =7126 and Females=1253
Number of males whose income <=50K = 15298 and Females= 9655

Regarding to education I found that :

- Number of males have high school grade and his income (<=50K) =5736
And number of Females= 3188
- Number of males have high school grade and his income (>50K) =1516
And number of Females= 233
- Number of males have Bachelors and his income (<=50K)= 1872
And number of Females= 1287
- Number of males have Bachelors and his income (>50K)= 2027
And number of Females= 359

Due to these calculations I see that we can say that we have achieved gender quality and these numbers are normal compared to the numbers of males and females ,but the number of females that their income >50k very small compared to males so government should do their best to increase the income of females

3. What other attribute/s could be an income predictor/s?

Taking 100 sample I found that the number of work hours can affect the income as the average work hours per week for the sample =47.49 and 80 person from the sample their income = >50 and the other their income <=50k

