

POINT PLOT-Decodes

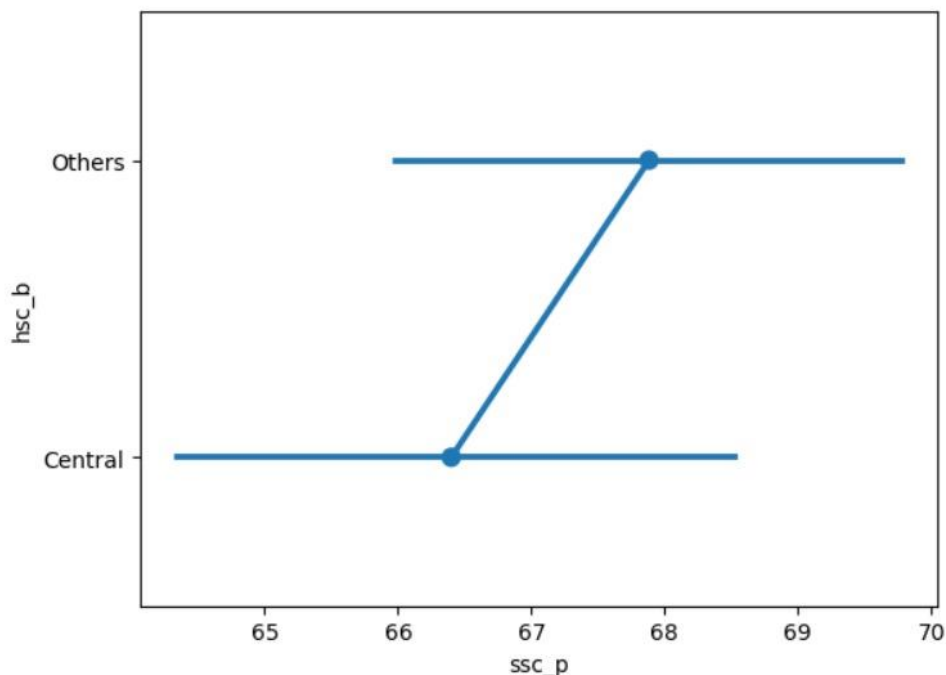
Uses of and why we use this Point plot:

Point plots allow you to compare the central tendency (usually the mean or median) of a numeric variable across different categories. This helps in understanding how the variable varies across different groups or conditions

Point plots can be easily combined with categorical variables using the hue, row, or col parameters. This allows for the comparison of multiple categorical variables simultaneously, providing deeper insights into the data.

Point plots are valuable tools for visualizing and interpreting relationships between numeric and categorical variables, providing insights into trends, differences, and variability in the data.

```
[48]: sb.pointplot(x="ssc_p",y="hsc_b",data=dataset)  
plt.show()
```



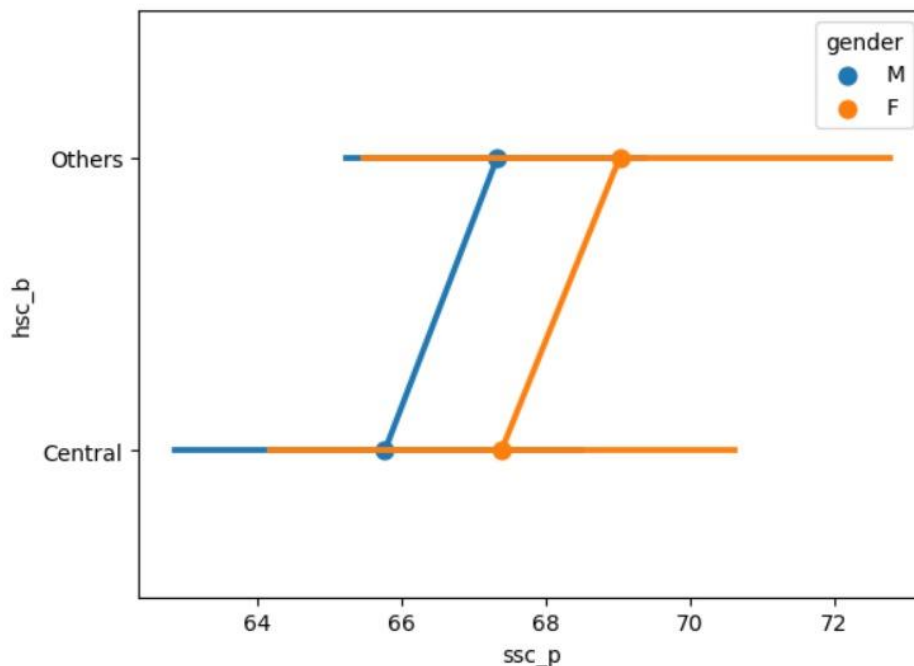
POINT PLOT-Decodes

(ssc_p): This represents the secondary school percentage, which is a numerical variable. Each point on the x-axis represents a different value of secondary school percentage.

(hsc_b): This represents the board of education for the higher secondary education, which is likely a categorical variable. Each category of the board of education is represented along the y-axis.

This point plot provides insights into the relationship between secondary school percentage, board of education, and gender, helping to identify any patterns or trends in the data.

```
[49]: sb.pointplot(x="ssc_p",y="hsc_b",data=dataset,hue="gender")  
      plt.show()
```



POINT PLOT-Decodes

In this scenario, the relationship between the board of education (central) and secondary education percentage (others) shows an increase from 55% to 68.8%, while the SSC percentage results show an increase from 66.0% to 69.8%.

Now, upon further analysis, it's evident that among males, the percentage is lower (hsc_b) in the central board (64.2%) compared to the SSC percentage, whereas for other males, it starts from 65.0% in the HSC board.

The plot, allowing you to compare the relationship between secondary school percentage and board of education for male and female separately.
