1. **Investigating the Bar coupons**

Proportion of total observations who choose to accept the coupons is **57%** versus **43%** who choose not to accept the coupons. Maximum of Coffee House coupons are accepted and minimum of restaurants that charge ($20-$50) is accepted. You can visualize this in the attached histogram *“coupons\_countplot.png”*

*“temperature\_histogram\_kde.png”* indicate that maximum number of people in the dataset live in warmer climate with temperature equal to 80F and least number of people live in cooler climate with temp 30F.

I did analysis with a dataframe that contains only Bar coupons. **41%** of these were accepted. Of the ones that accepted **31%** went to bar 3 or less times a month versus **19%** who went more than thrice a month. **35%** of the drivers who accepted coupons and age of 25 or more went to the bar more than once a month. **48%** of the drivers who had occupation other than farming, fishing, forestry and didn’t have kid(s) as passengers went to the bar more than once a month. Finally, **48%** of the drivers who were widowed and didn’t have kid(s) as passengers went to the bar more than once a month.

1. **Hypothesis**

* 25 and above age people are more likely to accept bar coupons
* People who visit bar fewer than 3 times a month are more likely to accept bar coupons
* People with Farming, Fishing, Forestry as their occupation are less likely to accept bar coupons
* Widowers are less likely to accept bar coupons

1. **Investigating the Coffee House Coupon**

With the analysis of cafe comparison with bar, it is evident that across the board, higher percentage accept coupons for cafe compared to bar. Proportion of coffee house coupons that were accepted is **50%** compared to bar coupons at **41%.** Acceptance rate of cafe coupons for those who went to a Coffee House 3 or fewer times a month is **34%** compared to **31%** for bar coupons. Acceptance rate of cafe coupons for those who went to Coffee House more than 3 times a month is **30%** compared to **19%** for bar coupons**.** Acceptance rate of cafe coupons for drivers who go to Coffee House more than once a month and are over the age of 25 is **44%** compared to for bar at **35%.** Acceptance rate of drivers who go to cafe more than once a month and had passengers that were not a kid and had occupations other than farming, fishing, forestry is **60%** compared to bar at **48%.** Acceptance rate for drivers that go to cafe more than once a month, had passengers that were not a kid, and were not widowed is **60%** compared to bar at **48%**