**1- destination:**

No Urgent Place, Home, Work  
**2- passanger**:

Alone, Friend(s), Kid(s), Partner (who are the passengers in the car)  
**3- weather**:

Sunny, Rainy, Snowy  
**4- temperature:**

55, 80, 30  
**5- time:**

10AM, 2PM, 6PM, 7AM, 10PM  
**6- coupon:**

Restaurant(<$20), Restaurant($20-$50), Coffee House, Bar, Carry out & Take away.  
**7- expiration:**

1d, 2h (the coupon expires in 1 day or in 2 hours)  
**8- gender:**

Female, Male  
**9- age:**

below21, 21, 26, 31, 36, 41, 46, 50plus.  
**10- maritalStatus:**

Unmarried partner, Single, Married partner, Divorced, Widowed

**11- has\_Children:**

1, 0

**11- education:**

Some college - no degree, Bachelors degree, Associates degree, High School Graduate, Graduate degree (Masters or Doctorate), Some High School  
**12- occupation:**

Unemployed, Architecture & Engineering, Student,  
Education&Training&Library, Healthcare Support, Healthcare Practitioners & Technical, Sales & Related, Management, Arts Design Entertainment Sports & Media, Computer & Mathematical, Life Physical Social Science, Personal Care & Service, Community & Social Services, Office & Administrative Support,  
Construction & Extraction, Legal, Retired, Installation Maintenance & Repair, Transportation & Material Moving, Business & Financial, Protective Service,  
Food Preparation & Serving Related, Production Occupations, Building & Grounds Cleaning & Maintenance, Farming Fishing & Forestry

**13- income**:

$37500 - $49999, $62500 - $74999, $12500 - $24999, $75000 - $87499,  
$50000 - $62499, $25000 - $37499, $100000 or More, $87500 - $99999, Less than $12500

**14- Bar:**

never, less1, 1~3, gt8, nan4~8 (feature meaning: how many times do you go to a bar every month?)

**15- CoffeeHouse**:

never, less1, 4~8, 1~3, gt8, nan (feature meaning: how many times do you go to a coffeehouse every month?)

**16- CarryAway:**

n4~8, 1~3, gt8, less1, never (feature meaning: how many times do you get take-away food every month?)

**17- RestaurantLessThan20:**

4~8, 1~3, less1, gt8, never (feature meaning: how many times do you go to a restaurant with an average expense per person of less than $20 every month?)

**18- Restaurant20To50:**

1~3, less1, never, gt8, 4~8, nan (feature meaning: how many times do you go to a restaurant with average expense per person of $20 - $50 every month?)  
**19- toCoupon\_GEQ15min**:

0,1 (feature meaning: driving distance to the restaurant/bar for using the coupon is greater than 15 minutes)  
**20- toCoupon\_GEQ25min**:

0, 1 (feature meaning: driving distance to the restaurant/bar for using the coupon is greater than 25 minutes)  
**21- direction\_same:**

0, 1 (feature meaning: whether the restaurant/bar is in the same direction as your current destination)  
**22- direction\_opp:**

1, 0 (feature meaning: whether the restaurant/bar is in the same direction as your current destination)  
**23- Y:**

1, 0 (whether the coupon is accepted)