Untitled

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# EDA  
df = read.csv('2020.AI.bike-train.csv')  
str(df)

## 'data.frame': 1000 obs. of 11 variables:  
## $ id : int 3 6 7 8 9 13 14 16 19 20 ...  
## $ hour : int 20 13 6 23 18 2 3 21 9 14 ...  
## $ hour\_bef\_temperature : num 16.3 20.1 13.9 8.1 29.5 13.6 10.6 16 13.8 17.2 ...  
## $ hour\_bef\_precipitation: num 1 0 0 0 0 0 0 0 0 0 ...  
## $ hour\_bef\_windspeed : num 1.5 1.4 0.7 2.7 4.8 1.7 1.5 6 1.9 2.1 ...  
## $ hour\_bef\_humidity : num 89 48 79 54 7 80 58 21 64 32 ...  
## $ hour\_bef\_visibility : num 576 916 1382 946 2000 ...  
## $ hour\_bef\_ozone : num 0.027 0.042 0.033 0.04 0.057 0.027 0.038 0.05 0.039 0.025 ...  
## $ hour\_bef\_pm10 : num 76 73 32 75 27 34 62 90 93 64 ...  
## $ hour\_bef\_pm2.5 : num 33 40 19 64 11 15 33 28 19 19 ...  
## $ count : num 49 159 26 57 431 39 23 146 39 83 ...

table(is.na(df))

##   
## FALSE   
## 11000

summary(df)

## id hour hour\_bef\_temperature hour\_bef\_precipitation  
## Min. : 3.0 Min. : 0.00 Min. : 3.10 Min. :0.000   
## 1st Qu.: 424.5 1st Qu.: 6.00 1st Qu.:13.10 1st Qu.:0.000   
## Median : 832.5 Median :12.00 Median :16.60 Median :0.000   
## Mean : 831.4 Mean :11.89 Mean :16.83 Mean :0.033   
## 3rd Qu.:1247.5 3rd Qu.:18.00 3rd Qu.:20.10 3rd Qu.:0.000   
## Max. :1653.0 Max. :23.00 Max. :30.00 Max. :1.000   
## hour\_bef\_windspeed hour\_bef\_humidity hour\_bef\_visibility hour\_bef\_ozone   
## Min. :0.000 Min. : 7.00 Min. : 78.0 Min. :0.00300   
## 1st Qu.:1.400 1st Qu.:36.00 1st Qu.: 910.5 1st Qu.:0.02400   
## Median :2.300 Median :51.00 Median :1577.0 Median :0.03800   
## Mean :2.465 Mean :52.01 Mean :1412.1 Mean :0.03848   
## 3rd Qu.:3.400 3rd Qu.:68.25 3rd Qu.:1991.0 3rd Qu.:0.05125   
## Max. :8.000 Max. :99.00 Max. :2000.0 Max. :0.10600   
## hour\_bef\_pm10 hour\_bef\_pm2.5 count   
## Min. : 12.00 Min. : 9.00 Min. : 1.0   
## 1st Qu.: 36.00 1st Qu.:20.00 1st Qu.: 37.0   
## Median : 52.00 Median :26.00 Median :100.0   
## Mean : 57.45 Mean :30.24 Mean :110.7   
## 3rd Qu.: 70.00 3rd Qu.:37.00 3rd Qu.:153.0   
## Max. :269.00 Max. :90.00 Max. :431.0