

Medr Z (om spew) Level -> loog (Sales)

(P) Sper ) Lood 1 / 7

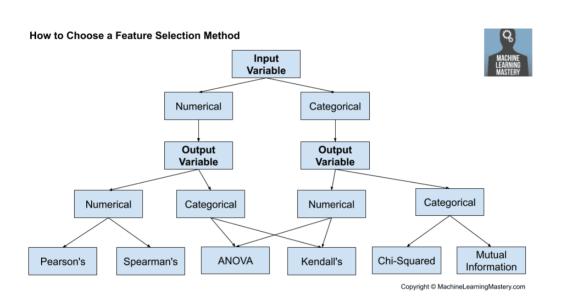
(-17) Lood 2 / 7

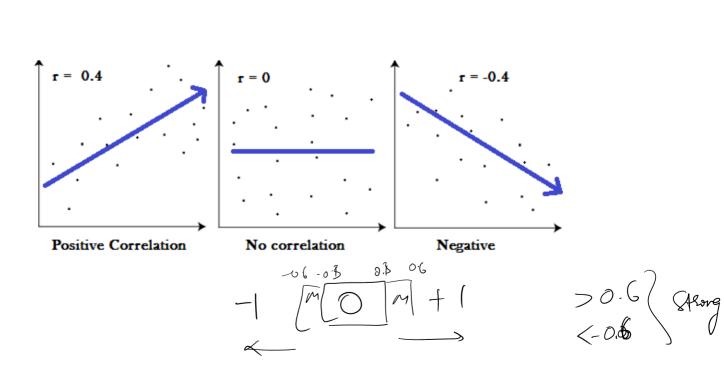
Chi Sq test - \( \begin{aligned} P(0.10) & H\_1: Not some \\ \begin{aligned} \begin{aligned} \phi & \left( 0.05 \end{aligned} \) \\ \phi & \text{loss} & \text{loss} & \text{loss} \\ \end{aligned} \] if gt ous (Accept)

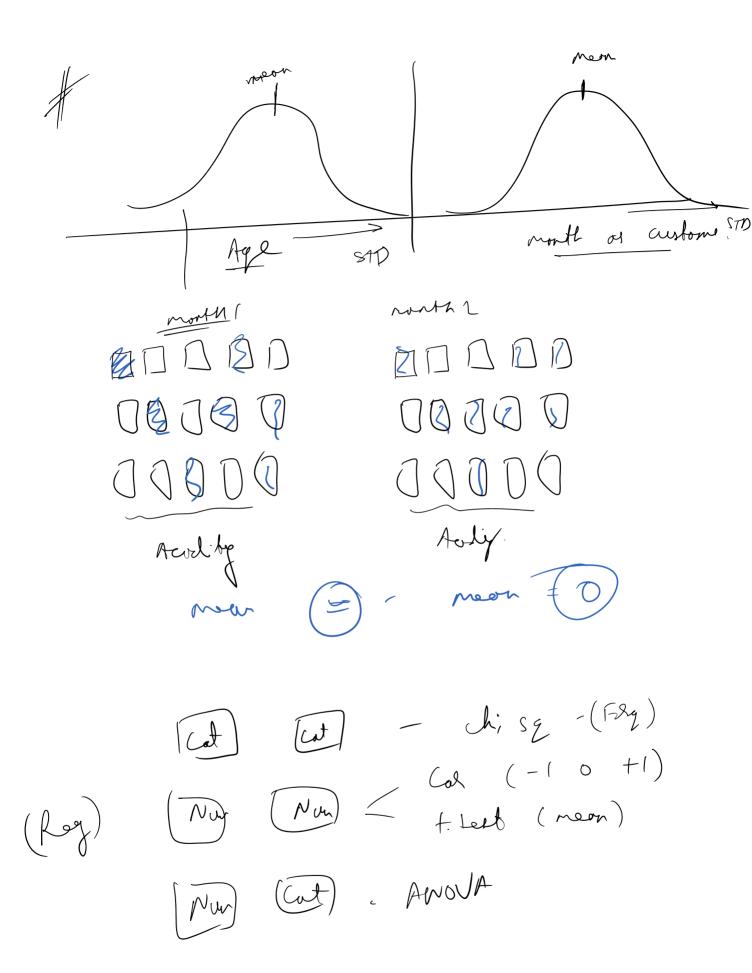
Indian - memory

Timogra/ Gentoon

Broon Thorting Image Colory
Roller Colory







```
glm(formula = factor(fraud_reported) ~ age + auto_make + insured_hobbies + months_as_customer, family = "binomial", data = data)
   Deviance Residuals:
  Min 1Q Median 3Q Max
-1.9796 -0.7217 -0.5801 -0.3405 2.3420
   Coefficients:
                                                           Estimate Std. Error z value Pr(>|z|)
-0.709666 0.730624 -0.971 0.3314
 (Intercept)
                                                                                                -0.971
-1.105
1.693
0.905
                                                          -0.709666
                                                         -0.709666
-0.026063
0.737137
0.404735
                                                                               0.023584
0.435401
0.447360
0.438970
                                                                                                                 0.2691
0.0905
0.3656
0.3145
   auto_makeAudi
   auto_makeBMW
   auto makeChevrolet
                                                           0.441502
                                                                                                   1.006
                                                                                                   0.530
1.045
0.740
  auto_makeDodge
auto_makeFord
                                                           0.233577
                                                                               0.440713
                                                                                                                  0.5961
                                                                               0.473323
   auto makeHonda
                                                           0.350350
                                                                                                                  0.4592
  auto_makeJeep
auto_makeMercedes
auto_makeNissan
                                                         -0.165355
0.613162
0.018143
                                                                               0.482401
0.446530
0.461158
                                                                                                  -0.343
1.373
                                                                                                                  0.7318
                                                                                                   0.039
0.752
0.807
                                                                                                                  0.9686
  auto_makeSaab
auto_makeSuburu
auto_makeToyota
auto_makeVolkswagen
                                                           0.329885
                                                                               0.438962
                                                                                                                  0.4523
                                                           0.351524
0.037700
0.504746
                                                                               0.435739
                                                                                                                  0.4198
                                                                                                   0.081
                                                                                                                  0.9353
                                                                               0.446962
                                                                                                   1.129
                                                                                                                  0.2588
   insured_hobbiesboard-games 0.127906
insured_hobbiesboard-games 0.127906
insured_hobbiesbungie-jumping -0.652896
                                                                                                  -0.959
0.276
-1.315
                                                                               0.564639
                                                                                                                  0.3374
                                                                               0.496388
                                                                                                                  0.1884
                                                        -0.652896

1.312169

2.541.65

2.085.52

-1.021977

-0.364539

-1.088675

-0.103755
   insured_hobbiescamping
insured_hobbieschess
insured_hobbiescross-fit
                                                                               0.579557
0.519706
0.512722
                                                                                                                  0.0236
01e-06
                                                                                                                  74e-05
                                                                               0.581513
0.475258
0.547800
0.470512
                                                                                                                  0.0788
0.4431
0.0469
   insured_hobbiesdancing
   insured_hobbiesexercise
insured_hobbiesgolf
insured_hobbieshiking
                                                                                                                  0.8255
   insured_hobbieskayaking
insured_hobbiesmovies
insured_hobbiespaintball
                                                         -1.295551
-0.628572
-0.198754
                                                                               0.579189
0.494467
0.463371
                                                                                                                  0.0253
                                                                                                  -1.271
-0.429
                                                                                                                  0.6680
   insured_hobbiespolo
insured_hobbiesreading
insured_hobbiesskydiving
                                                         0.037961
-0.056727
-0.237442
                                                                               0.468102
                                                                                                   0.081
                                                                                                                  0.9354
                                                                               0.443076
                                                                                                                  0.8981
   insured_hobbiessleeping
insured_hobbiesvideo-games
insured_hobbiesyachting
                                                         -0.428888
                                                                               0.519160
                                                                                                 -0.826
                                                                                                                  0.4087
                                                         -0.273526
0.200967
0.001883
                                                                               0.489622
                                                                                                 -0.559
0.446
0.989
                                                                                                                  0.5764
months_as_customer
                                                                              0.001904
                                                                                                                  0.3225
   Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
   (Dispersion parameter for binomial family taken to be 1)
  Null deviance: 1118.03 on 999 degrees of freedom
Residual deviance: 963.27 on 965 degrees of freedom
   AIC: 1033.3
```

Number of Fisher Scoring iterations: 4

0.5) 8 F = Y

**Data Preprocessing Data Cleaning Data Transformation Data Reduction** Normalization Data Cube Missing Data Aggregation 1. Ignore The Tuplet Atribute Selection Attribute Subset 2. Fill The Missing Values (manually, by Selection mean or by most probable value Discretization Numerosity Reduction **Noisy Data** 1. Binning Method Concept Hiererchy Dimensionality Generation Reduction 2. Regression 3. Clustering