ASNA Case

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Summary

qwertyuidfghyj

```
## 
## Call:
## glm(formula = nd_rp ~ ., family = binomial(link = "logit"), data = bridge_data)
## 
## Deviance Residuals:
##     Min       1Q   Median       3Q      Max
## -2.7069  -0.3431  -0.2383  -0.1774   3.8766
## 
## Coefficients:
##                                Estimate Std. Error z value Pr(>|z|)
## (Intercept)                  -5.796e+00  2.458e-01 -23.583  < 2e-16 ***
## RoadTypeThoroughfare          5.211e-01  9.436e-02   5.523 3.33e-08 ***
## RoadTypeSecondary             6.722e-01  9.903e-02   6.788 1.14e-11 ***
## RoadTypeCity_St               7.324e-01  9.803e-02   7.471 7.93e-14 ***
## RoadTypeOther                 9.891e-01  1.084e-01   9.126  < 2e-16 ***
## NumberofLanes                 3.212e-03  3.935e-02   0.082 0.934945
## AvgDailyTraffic               6.450e-07  1.696e-06   0.380 0.703756
## OperationalStatusTemporaryFix 2.865e+00  9.693e-02  29.557  < 2e-16 ***
## OperationalStatusRestriction  2.448e+00  4.070e-02  60.165  < 2e-16 ***
## OperationalStatusClosed       5.227e+00  1.552e-01  33.688  < 2e-16 ***
## OperationalStatusNewNotOpen   2.478e+00  6.121e-01   4.048 5.16e-05 ***
## StructureMaterialSteel       -2.137e-01  4.054e-02  -5.273 1.34e-07 ***
## StructureMaterialWood        -2.581e-01  7.441e-02  -3.469 0.000522 ***
## DeckMaterialSteel             5.945e-01  5.725e-02  10.385  < 2e-16 ***
## DeckMaterialWood              1.181e+00  4.732e-02  24.968  < 2e-16 ***
## BridgeDesign                  1.870e-02  2.691e-03   6.952 3.61e-12 ***
## NumberofSpans                 1.639e-02  4.555e-03   3.598 0.000321 ***
## BridgeLength                  6.715e-04  1.503e-04   4.468 7.89e-06 ***
## RoadWidth                    -1.700e-02  1.254e-02  -1.356 0.174959
## DeckWidth                    -1.137e-03  7.657e-03  -0.148 0.882002
## Age                           1.369e-02  6.311e-04  21.699  < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## (Dispersion parameter for binomial family taken to be 1)
## 
##     Null deviance: 39297  on 46885  degrees of freedom
## Residual deviance: 24048  on 46865  degrees of freedom
## AIC: 24090
## 
## Number of Fisher Scoring iterations: 6
```

```
## # A tibble: 46,886 x 13
##    RoadType NumberofLanes AvgDailyTraffic OperationalStat~ StructureMateri~
##    <fct>            <dbl>           <dbl> <fct>            <fct>
##  1 Seconda~             2           15900 NoRestriction    Concrete
##  2 Thoroug~             4            9800 NoRestriction    Concrete
##  3 Seconda~             2             270 NoRestriction    Concrete
##  4 Seconda~             1              10 NoRestriction    Concrete
##  5 Thoroug~             2            1596 NoRestriction    Concrete
##  6 Thoroug~             2             549 NoRestriction    Steel
##  7 City_St              2              60 Restriction      Wood
##  8 Seconda~             2             170 NoRestriction    Steel
##  9 Seconda~             1              46 NoRestriction    Concrete
## 10 Thoroug~             3           10085 NoRestriction    Steel
## # ... with 46,876 more rows, and 8 more variables: DeckMaterial <fct>,
## #   BridgeDesign <dbl>, NumberofSpans <dbl>, BridgeLength <dbl>,
## #   RoadWidth <dbl>, DeckWidth <dbl>, Age <dbl>, nd_rp <dbl>
```