Biostatistics-inference-model

2023-08-11

```
require(readxl)
```

```
## Loading required package: readxl
```

```
df_model <- read_excel("C:/Users/USUARIO/Documents/GitHub/Biostatistics-analysis/Datos_model.xlsx")
```

```
## New names:
## * `` -> `...1`
```

```
df_model$Location <- factor(df_model$Location)

df_model$Gender <- factor(df_model$Gender)
```

```
df_model[, -which(names(df_model) == "Target")] <- lapply(df_model[, -which(names(df_model) == "Target"]
```

```
modelLogistic <- glm(Target ~ `Probability of dying 30-70` + `Point estimate infant mortality rate` + `
```

```
summary(modelLogistic)
```

```
##
## Call:
## glm(formula = Target ~ `Probability of dying 30-70` + `Point estimate infant mortality rate` +
##     `Prevalence of current tobacco smoking (15+)` + `Point estimate maternal mortality ratio per 100
##     `Point estimate incidence of tuberculosis` + Gender + df_model$Location,
##     family = binomial, data = df_model)
##
## Coefficients:
##                                                   Estimate Std. Error
## (Intercept)                                     -1.386e+00  1.986e-01
## `Probability of dying 30-70`                    -7.419e-16  8.525e-03
## `Point estimate infant mortality rate`           8.442e-17  2.847e-03
## `Prevalence of current tobacco smoking (15+)`    8.385e-17  3.338e-03
## `Point estimate maternal mortality ratio per 100 000` -5.329e-17  4.166e-04
## `Point estimate incidence of tuberculosis`       9.054e-18  6.073e-04
## Gender                                          -4.468e-15  7.463e-02
## df_model$Location                                2.315e-17  9.351e-04
##                                                 z value Pr(>|z|)
## (Intercept)                                      -6.981 2.92e-12 ***
## `Probability of dying 30-70`                      0.000        1
## `Point estimate infant mortality rate`            0.000        1
## `Prevalence of current tobacco smoking (15+)`     0.000        1
## `Point estimate maternal mortality ratio per 100 000`   0.000        1
## `Point estimate incidence of tuberculosis`        0.000        1
## Gender                                            0.000        1
## df_model$Location                                 0.000        1
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
##
## (Dispersion parameter for binomial family taken to be 1)
##
##     Null deviance: 2747.2  on 2744  degrees of freedom
## Residual deviance: 2747.2  on 2737  degrees of freedom
## AIC: 2763.2
##
## Number of Fisher Scoring iterations: 4
```