

Dummy

MP

2015-06-05

```
> setwd("D:/Dropbox/R/2015-NUS/Session-2/(b) Data modelling - Flexible/Gender Discrimination/2.Dummy")
```

```
> Dataset <-  
+ read.table("D:/Dropbox/R/2015-NUS/Session-2/(b) Data modelling - Flexible/Gender Discrimination/2.Dummy/Table 4.1 Gender Discrimination/2.Dummy",  
+ header=TRUE, sep=";", na.strings="NA", dec=".", strip.white=TRUE)
```

```
> RegModel.1 <- lm(Experience~Salary, data=Dataset)  
> summary(RegModel.1)
```

```
Call:  
lm(formula = Experience ~ Salary, data = Dataset)  
  
Residuals:  
    Min       1Q   Median       3Q      Max  
-8.733 -4.809 -1.131  3.366 24.571  
  
Coefficients:  
            Estimate Std. Error t value Pr(>|t|)  
(Intercept) -2.512e+00  1.554e+00  -1.616   0.108  
Salary       1.824e-04  1.874e-05   9.733 <2e-16 ***  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
  
Residual standard error: 6.069 on 206 degrees of freedom  
Multiple R-squared:  0.315, Adjusted R-squared:  0.3117  
F-statistic: 94.72 on 1 and 206 DF,  p-value: < 2.2e-16
```

```
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```

```
> Dataset <-  
+ read.table("D:/Dropbox/R/2015-NUS/Session-2/(b) Data modelling - Flexible/Gender Discrimination/2.Dummy/Table 4.1 Gender Discrimination/2.Dummy",  
+ header=TRUE, sep=";", na.strings="NA", dec=".", strip.white=TRUE)
```

```
> RegModel.2 <- lm(Salary~Experience, data=Dataset)  
> summary(RegModel.2)
```

```
Call:  
lm(formula = Salary ~ Experience, data = Dataset)  
  
Residuals:  
    Min       1Q   Median       3Q      Max  
-56034 -12684 -1961  10658  72784  
  
Coefficients:  
            Estimate Std. Error t value Pr(>|t|)  
(Intercept)  59033.1    2499.8  23.615 <2e-16 ***  
Experience    1727.3     177.5   9.733 <2e-16 ***  
---  
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
  
Residual standard error: 18680 on 206 degrees of freedom  
Multiple R-squared:  0.315, Adjusted R-squared:  0.3117  
F-statistic: 94.72 on 1 and 206 DF,  p-value: < 2.2e-16
```

```
> RegModel.3 <- lm(Salary~Experience+Gender.Male, data=Dataset)  
> summary(RegModel.3)
```

```
Call:
lm(formula = Salary ~ Experience + Gender.Male, data = Dataset)

Residuals:
    Min       1Q   Median       3Q      Max
-52779  -9806   -121    8347  60913

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)  53260.0     2416.6  22.039 < 2e-16 ***
Experience    1744.6       160.7  10.858 < 2e-16 ***
Gender.Male  17020.6     2499.6   6.809 1.06e-10 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 16910 on 205 degrees of freedom
Multiple R-squared:  0.4413,    Adjusted R-squared:  0.4359
F-statistic: 80.98 on 2 and 205 DF,  p-value: < 2.2e-16
```