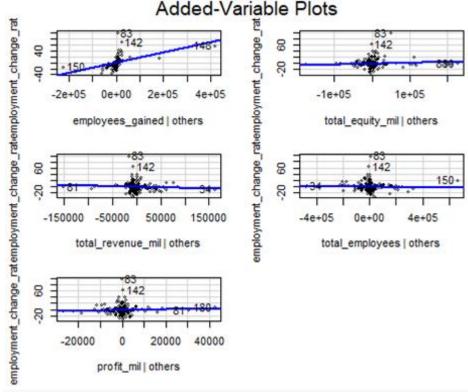
```
options(repos = c(CRAN = "https://cran.r-project.org"))
install.packages("readxl")
## Installing package into 'C:/Users/jaiti/AppData/Local/R/win-library/4.3'
## (as 'lib' is unspecified)
## package 'readxl' successfully unpacked and MD5 sums checked
## The downloaded binary packages are in
## C:\Users\jaiti\AppData\Local\Temp\Rtmpmyo2C9\downloaded packages
library(readx1)
## Warning: package 'readxl' was built under R version 4.3.2
install.packages("car")
## Installing package into 'C:/Users/jaiti/AppData/Local/R/win-library/4.3'
## (as 'lib' is unspecified)
## package 'car' successfully unpacked and MD5 sums checked
## The downloaded binary packages are in
## C:\Users\jaiti\AppData\Local\Temp\Rtmpmyo2C9\downloaded packages
library(car)
## Warning: package 'car' was built under R version 4.3.2
## Loading required package: carData
## Warning: package 'carData' was built under R version 4.3.2
#imported necessary packages
emp df <- read excel("employmentfortune.xlsx")</pre>
#Loaded data set
emp df <- na.omit(emp df)</pre>
lm_model <- lm(employment_change_rate ~ employees_gained + total_equity_mil +</pre>
total revenue mil + total employees + profit mil, data = emp df)
summary(lm model)
##
## Call:
## lm(formula = employment change rate ~ employees gained + total equity mil
+
       total revenue mil + total employees + profit mil, data = emp df)
##
## Residuals:
       Min
                10 Median
                                30
                                       Max
```

```
## -31.800 -6.322 -1.211
                             3.568 99.028
##
## Coefficients:
                       Estimate Std. Error t value Pr(>|t|)
##
## (Intercept)
                      3.850e+00 1.092e+00
                                             3.524 0.000517 ***
## employees_gained
                      1.728e-04
                                 2.447e-05
                                             7.061 2.1e-11 ***
## total equity mil
                      2.633e-05 2.471e-05
                                             1.065 0.287828
## total revenue mil -4.152e-05
                                            -1.220 0.223820
                                 3.404e-05
## total_employees
                     -6.012e-06
                                 9.582e-06
                                            -0.627 0.531011
                                             0.863 0.388955
## profit mil
                      1.325e-04
                                 1.535e-04
## ---
## Signif. codes:
                  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 13.63 on 222 degrees of freedom
## Multiple R-squared: 0.1901, Adjusted R-squared: 0.1719
## F-statistic: 10.42 on 5 and 222 DF, p-value: 5.344e-09
```

#summary of multilinear regression output

partial_plots <- avPlots(lm_model)</pre>



#partial regression plots for all the independent variables