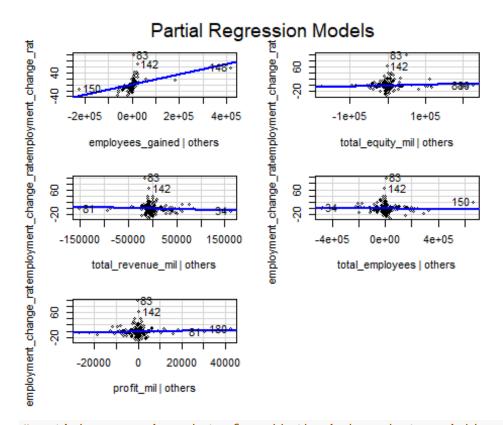
```
options(repos = c(CRAN = https://cran.r-project.org))
install.packages("readxl")
## Installing package into 'C:/Users/jaiti/AppData/Local/R/win-library/4.3'
## (as 'lib' is unspecified)
## package 'readxl' successfully unpacked and MD5 sums checked
## Warning: cannot remove prior installation of package 'readxl'
## Warning in file.copy(savedcopy, lib, recursive = TRUE): problem copying
## C:\Users\jaiti\AppData\Local\R\win-
library\4.3\00LOCK\readxL\libs\x64\readxL.dll
## to C:\Users\jaiti\AppData\Local\R\win-
library\4.3\readxl\libs\x64\readxl.dll:
## Permission denied
## Warning: restored 'readxl'
##
## The downloaded binary packages are in
## C:\Users\jaiti\AppData\Local\Temp\RtmpcTwvzG\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\RtmpcTwvzG\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 3.404e-05 -1.220 0.223820
## total employees -6.012e-06 9.582e-06 -0.627 0.531011
## profit_mil
                     1.325e-04 1.535e-04 0.863 0.388955
## ---
## 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, main = "Partial Regression Models")</pre>
```



#partial regression plots for all the independent variables