Homework,Lab#6

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load("C:/Homework EcoB2000/homework,lab#6/Household\_Pulse\_data\_v2 (2).RData")  
 load("C:/Homework EcoB2000/homework,lab#6/acs2017\_ny\_data (1).RData")  
attach(acs2017\_ny)  
model\_v1 <- lm(INCWAGE ~ AGE)  
model\_v2 <- lm(acs2017\_ny$INCWAGE ~ acs2017\_ny$AGE)  
  
model\_v3 <- lm(INCWAGE ~ AGE, data = acs2017\_ny)  
summary(model\_v3)

##   
## Call:  
## lm(formula = INCWAGE ~ AGE, data = acs2017\_ny)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -39492 -31602 -25429 12541 612359   
##   
## Coefficients:  
## Estimate Std. Error t value Pr(>|t|)   
## (Intercept) 42296.810 439.916 96.15 <2e-16 \*\*\*  
## AGE -175.328 8.422 -20.82 <2e-16 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 66080 on 163156 degrees of freedom  
## (33427 observations deleted due to missingness)  
## Multiple R-squared: 0.002649, Adjusted R-squared: 0.002643   
## F-statistic: 433.4 on 1 and 163156 DF, p-value: < 2.2e-16

load("C:/Homework EcoB2000/homework,lab#6/Household\_Pulse\_data\_v2 (2).RData")

#Create the dependent variable vaxx

Household\_Pulse\_data$vaxx <-(Household\_Pulse\_data$RECVDVACC == "yes got vaxx")  
Household\_Pulse\_data$vaxx = as.factor(Household\_Pulse\_data$vaxx)  
str(Household\_Pulse\_data$vaxx)

## Factor w/ 2 levels "FALSE","TRUE": 2 2 2 2 2 2 2 2 2 2 ...

#Frequency analysis of vaxx variable

table(Household\_Pulse\_data$vaxx)

##   
## FALSE TRUE   
## 8788 60326

#count the missing values

sum(is.na(Household\_Pulse\_data))

## [1] 188959

#Replace the “NA” and “NA’s” with the actual recognized NULL by R then count missing values in the vaxx variab

library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

Household\_Pulse\_data<-Household\_Pulse\_data%>%   
 mutate(RECVDVACC=na\_if(vaxx,"NA's"))  
Household\_Pulse\_data= Household\_Pulse\_data %>% mutate(RECVDVACC = na\_if(vaxx, "NA"))  
sum(is.na(Household\_Pulse\_data$vaxx))

## [1] 0

#Summary statistics->The “skimr” package was used to calculate the summary statistics of the entire data setas shown below:

library(skimr)  
skim(Household\_Pulse\_data)

Data summary

|  |  |
| --- | --- |
| Name | Household\_Pulse\_data |
| Number of rows | 69114 |
| Number of columns | 45 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Column type frequency: |  |
| Factor | 42 |
| Numeric | 3 |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Group variables | None |

**Variable type: factor**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | ordered | n\_unique | top\_counts |
| RHISPANIC | 0 | 1 | FALSE | 2 | Not: 62660, His: 6454 |
| RRACE | 0 | 1 | FALSE | 4 | Whi: 56938, Bla: 5412, Asi: 3561, Oth: 3203 |
| EEDUC | 0 | 1 | FALSE | 7 | bac: 20075, adv: 17731, som: 14596, HS : 7857 |
| MS | 0 | 1 | FALSE | 6 | mar: 40036, nev: 12801, div: 10310, wid: 3872 |
| EGENID\_BIRTH | 0 | 1 | FALSE | 2 | fem: 41522, mal: 27592 |
| GENID\_DESCRIBE | 0 | 1 | FALSE | 5 | fem: 40263, mal: 26796, NA: 1131, oth: 722 |
| SEXUAL\_ORIENTATION | 0 | 1 | FALSE | 6 | str: 61238, gay: 2343, bis: 2288, NA: 1506 |
| KIDS\_LT5Y | 0 | 1 | FALSE | 2 | NA: 62342, Yes: 6772 |
| KIDS\_5\_11Y | 0 | 1 | FALSE | 2 | NA: 58467, Yes: 10647 |
| KIDS\_12\_17Y | 0 | 1 | FALSE | 2 | NA: 58046, Yes: 11068 |
| ENROLLNONE | 0 | 1 | FALSE | 2 | NA: 64285, chi: 4829 |
| RECVDVACC | 0 | 1 | FALSE | 2 | TRU: 60326, FAL: 8788 |
| DOSESRV | 0 | 1 | FALSE | 4 | yes: 57762, NA: 9105, yes: 1993, no : 254 |
| GETVACRV | 0 | 1 | FALSE | 6 | NA: 61159, def: 3432, pro: 1599, uns: 1584 |
| KIDDOSES | 0 | 1 | FALSE | 3 | NA: 58318, Yes: 7135, no : 3661 |
| KIDGETVAC | 0 | 1 | FALSE | 7 | NA: 65384, def: 1036, uns: 736, pro: 593 |
| HADCOVID | 0 | 1 | FALSE | 4 | no : 58221, yes: 9122, NA: 1363, not: 408 |
| WRKLOSSRV | 0 | 1 | FALSE | 3 | no : 59095, yes: 8058, NA: 1961 |
| ANYWORK | 0 | 1 | FALSE | 3 | yes: 39237, no : 27742, NA: 2135 |
| KINDWORK | 0 | 1 | FALSE | 6 | NA: 30540, wor: 21370, wor: 6378, wor: 5055 |
| RSNNOWRKRV | 0 | 1 | FALSE | 13 | NA: 42659, ret: 15024, oth: 4027, sic: 1451 |
| CHLDCARE | 0 | 1 | FALSE | 3 | NA: 58419, no: 8129, yes: 2566 |
| CURFOODSUF | 0 | 1 | FALSE | 5 | had: 49234, had: 9947, NA: 6770, som: 2486 |
| CHILDFOOD | 0 | 1 | FALSE | 4 | NA: 64258, kid: 3394, som: 1191, oft: 271 |
| ANXIOUS | 0 | 1 | FALSE | 5 | no : 26611, sev: 19794, nea: 8623, NA: 7946 |
| WORRY | 0 | 1 | FALSE | 5 | no : 31876, sev: 17936, NA: 8016, nea: 6307 |
| TENURE | 0 | 1 | FALSE | 5 | hou: 28016, hou: 16738, hou: 12579, NA: 11103 |
| LIVQTRRV | 0 | 1 | FALSE | 8 | liv: 41348, NA: 11336, liv: 6731, liv: 4628 |
| RENTCUR | 0 | 1 | FALSE | 3 | NA: 56572, cur: 11239, beh: 1303 |
| MORTCUR | 0 | 1 | FALSE | 3 | NA: 41200, cur: 26462, beh: 1452 |
| EVICT | 0 | 1 | FALSE | 5 | NA: 67859, som: 377, not: 345, not: 326 |
| FORCLOSE | 0 | 1 | FALSE | 5 | NA: 67695, not: 662, not: 474, som: 218 |
| EST\_ST | 0 | 1 | FALSE | 51 | Cal: 5359, Tex: 3766, Flo: 2728, Was: 2634 |
| PRIVHLTH | 0 | 1 | FALSE | 3 | has: 46869, no : 11275, NA: 10970 |
| PUBHLTH | 0 | 1 | FALSE | 3 | no : 33381, has: 23346, NA: 12387 |
| REGION | 0 | 1 | FALSE | 4 | Sou: 22680, Wes: 22305, Mid: 13651, Nor: 10478 |
| INCOME | 0 | 1 | FALSE | 8 | NA: 20335, HH : 10117, HH : 9330, HH : 7830 |
| Works\_onsite | 0 | 1 | FALSE | 3 | wor: 34918, no: 27846, NA: 6350 |
| works\_remote | 0 | 1 | FALSE | 3 | no: 38229, wor: 22863, NA: 8022 |
| Shop\_in\_store | 0 | 1 | FALSE | 3 | sho: 53576, no: 8665, NA: 6873 |
| eat\_in\_restaurant | 0 | 1 | FALSE | 3 | eat: 32405, no: 29492, NA: 7217 |
| Vaxx | 0 | 1 | FALSE | 2 | TRU: 60326, FAL: 8788 |

**Variable type: numeric**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| skim\_variable | n\_missing | complete\_rate | mean | sd | p0 | p25 | p50 | p75 | p100 | hist |
| Num\_kids\_Pub\_School | 55108 | 0.20 | 1.71 | 0.89 | 0 | 1 | 2 | 2 | 4 | ▁▇▆▂▁ |
| Num\_kids\_Priv\_School | 66430 | 0.04 | 1.03 | 0.74 | 0 | 0 | 1 | 2 | 2 | ▅▁▇▁▅ |
| Num\_kids\_homeschool | 67421 | 0.02 | 0.87 | 0.81 | 0 | 0 | 1 | 2 | 2 | ▇▁▆▁▆ |

#The data used for modeling was a subset of the original dataset,the data was filtered based on state and i went with state of Ohio.Then some variables with one level only were dropped top prevent them from interfering with the models. The following are the variables that were dropped.drop <- c(“EST\_ST”,“KIDS\_LT5Y”,“KIDS\_5\_11Y”,“KIDS\_12\_17Y”,“REGION”,“ENROLLNONE”,“CHLDCARE”,“RSNNOWRKRV”,“Num\_kids\_Pub\_School”,“Num\_kids\_Priv\_School”,“Num\_kids\_homeschool”)

#Frequency statistics of the vaccination variable

table(Household\_Pulse\_data$vaxx)

##   
## FALSE TRUE   
## 8788 60326

#After generating the vaxx variable and dropping replacing the “NA” string with null to indicate missing values,the above table function is use to get the frequency disyribution of the vaccinated(TRUE) and the uncaccinated (FALSE)

#Cross tabulation of vaccination and education

table(Household\_Pulse\_data$vaxx,Household\_Pulse\_data$EEDUC)

##   
## less than hs some hs HS diploma some coll assoc deg bach deg adv deg  
## FALSE 121 284 1760 2574 1242 1803 1004  
## TRUE 290 652 6097 12022 6266 18272 16727

# looking the cross tabulation between vaxx and education i found that the more educated person is highly the chances they get vaccinated.See above table.

#Summary statistics of vaccination

summary(Household\_Pulse\_data$vaxx)

## FALSE TRUE   
## 8788 60326

#Subset the data based on state:select Ohio

The “skmir” package was usd to calculate the summary

pick\_Ohio <- (Household\_Pulse\_data$EST\_ST == "Ohio")   
df\_ohio <- subset(Household\_Pulse\_data, pick\_Ohio)  
dim(df\_ohio) #check the dimension of the ohio dataframe

## [1] 1030 45

#drop the variables that have one level or too many levels causing the error in the model

df\_ohio = df\_ohio[, sapply(df\_ohio, nlevels) > 1]  
dim(df\_ohio)

## [1] 1030 42

drop <- c("EST\_ST","KIDS\_LT5Y","KIDS\_5\_11Y","KIDS\_12\_17Y","REGION","ENROLLNONE","CHLDCARE","RSNNOWRKRV",  
 "Num\_kids\_Pub\_School","Num\_kids\_Priv\_School","Num\_kids\_homeschool")  
df\_ohio = df\_ohio[,!(names(df\_ohio) %in% drop)]  
dim(df\_ohio)

## [1] 1030 34

library(dplyr)  
  
df\_ohio <- df\_ohio %>%  
 mutate(vaxx = ifelse(vaxx == "TRUE",1,0))  
table(df\_ohio$vaxx)

##   
## 0 1   
## 149 881

#split the data in to train and test data

library(caret)

## Loading required package: ggplot2

## Loading required package: lattice

a <- createDataPartition(df\_ohio$vaxx, list=FALSE)  
training <- df\_ohio[a,]  
test <- df\_ohio[-a,]  
table(training$vaxx)

##   
## 0 1   
## 75 440

table(test$vaxx)

##   
## 0 1   
## 74 441

#Logistic regression model

model\_logit1<-glm(vaxx~.,family=binomial,data=training)

## Warning: glm.fit: algorithm did not converge

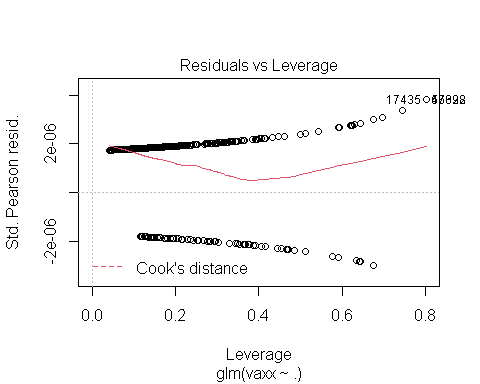
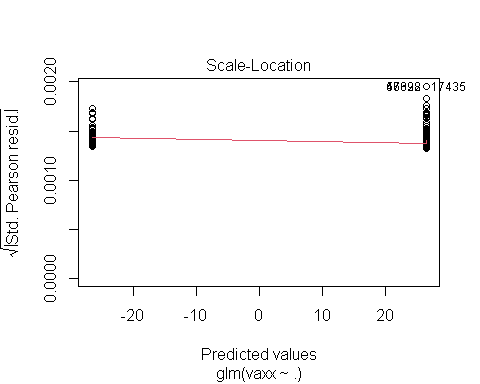
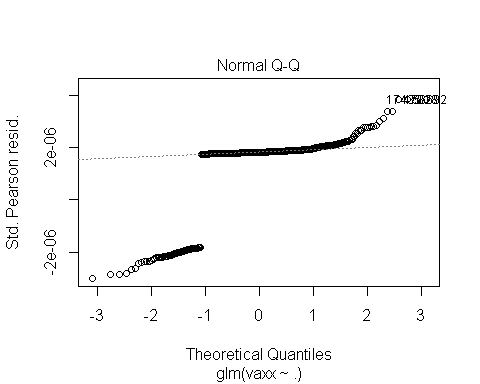
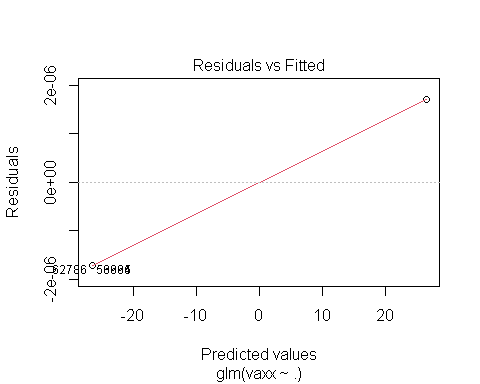
summary(model\_logit1)

##   
## Call:  
## glm(formula = vaxx ~ ., family = binomial, data = training)  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -2.409e-06 2.409e-06 2.409e-06 2.409e-06 2.409e-06   
##   
## Coefficients: (2 not defined because of singularities)  
## Estimate  
## (Intercept) -2.657e+01  
## RHISPANICHispanic 8.538e-07  
## RRACEBlack -4.997e-07  
## RRACEAsian -8.696e-07  
## RRACEOther 1.380e-06  
## EEDUCsome hs -9.766e-07  
## EEDUCHS diploma -9.139e-07  
## EEDUCsome coll -2.615e-07  
## EEDUCassoc deg 9.796e-07  
## EEDUCbach deg 2.448e-07  
## EEDUCadv deg -1.497e-07  
## MSmarried -3.413e-06  
## MSwidowed -2.202e-06  
## MSdivorced -3.650e-06  
## MSseparated -2.573e-06  
## MSnever -3.356e-06  
## EGENID\_BIRTHfemale -1.872e-06  
## GENID\_DESCRIBEmale 5.000e-06  
## GENID\_DESCRIBEfemale 7.174e-06  
## GENID\_DESCRIBEtransgender 1.145e-06  
## GENID\_DESCRIBEother 3.326e-06  
## SEXUAL\_ORIENTATIONgay or lesbian -3.006e-06  
## SEXUAL\_ORIENTATIONstraight -3.002e-06  
## SEXUAL\_ORIENTATIONbisexual -2.979e-06  
## SEXUAL\_ORIENTATIONsomething else -3.315e-06  
## SEXUAL\_ORIENTATIONdont know -2.776e-06  
## RECVDVACCTRUE 5.313e+01  
## DOSESRVyes got all doses -2.781e-06  
## DOSESRVyes plan to get all doses -2.120e-06  
## DOSESRVno will not get all doses -3.951e-06  
## GETVACRVdefinitely will get vaxx 2.932e-06  
## GETVACRVprobably will get vaxx 4.768e-06  
## GETVACRVunsure about vaxx 3.049e-06  
## GETVACRVprobably not 2.328e-06  
## GETVACRVdefinitely not 2.833e-06  
## KIDDOSESYes kids got or will get all doses 7.209e-08  
## KIDDOSESno kids did not or will not 8.912e-07  
## KIDGETVACdefinitely will get vaxx 6.442e-07  
## KIDGETVACprobably will get vaxx 3.686e-06  
## KIDGETVACunsure about vaxx -2.096e-06  
## KIDGETVACprobably not -2.991e-07  
## KIDGETVACdefinitely not -9.615e-07  
## KIDGETVACdont know yet 1.157e-06  
## HADCOVIDyes doctor told had covid -2.642e-06  
## HADCOVIDno did not -2.479e-06  
## HADCOVIDnot sure -7.123e-06  
## WRKLOSSRVyes recent HH job loss 1.826e-06  
## WRKLOSSRVno recent HH job loss 5.773e-07  
## ANYWORKyes employment in last 7 days 3.966e-07  
## ANYWORKno employment in last 7 days 1.808e-06  
## KINDWORKwork for govt 4.665e-07  
## KINDWORKwork for private co 8.418e-07  
## KINDWORKwork for nonprofit 1.626e-06  
## KINDWORKself employed 8.805e-07  
## KINDWORKwork in family biz 1.537e-06  
## CURFOODSUFhad enough food 1.841e-07  
## CURFOODSUFhad enough but not what wanted 1.032e-06  
## CURFOODSUFsometimes not enough food 1.201e-08  
## CURFOODSUFoften not enough food 1.128e-06  
## CHILDFOODoften kids not eating enough because couldnt afford -4.835e-06  
## CHILDFOODsometimes kids not eating enough -1.254e-06  
## CHILDFOODkids got enough food -1.723e-06  
## ANXIOUSno anxiety over past 2 wks 8.905e-07  
## ANXIOUSseveral days anxiety over past 2 wks 1.092e-06  
## ANXIOUSmore than half the days anxiety over past 2 wks 1.291e-06  
## ANXIOUSnearly every day anxiety 3.612e-07  
## WORRYno worry over past 2 wks 4.963e-08  
## WORRYseveral days worried over past 2 wks -9.101e-07  
## WORRYmore than half the days worried over past 2 wks -8.275e-07  
## WORRYnearly every day worry 5.318e-07  
## TENUREhousing owned free and clear -2.008e-06  
## TENUREhousing owned with mortgage -1.122e-06  
## TENUREhousing rented 1.023e-07  
## TENUREhousing occupied without rent -8.586e-07  
## LIVQTRRVlive in mobile home 2.073e-06  
## LIVQTRRVlive in detached 1 family 3.785e-07  
## LIVQTRRVlive in 1 family attached to others 3.022e-07  
## LIVQTRRVlive in bldg w 2 apartments -2.435e-07  
## LIVQTRRVlive in building with 3-4 apts 1.036e-06  
## LIVQTRRVlive in bldg w 5+ apts -4.981e-07  
## LIVQTRRVlive in boat, RV, etc 4.271e-06  
## RENTCURcurrent on rent -1.074e-06  
## RENTCURbehind on rent 7.047e-07  
## MORTCURcurrent on mortgage -2.442e-07  
## MORTCURbehind on mortgage 2.161e-06  
## EVICTsomewhat likely evicted in next 2 months -1.389e-06  
## EVICTnot very likely evicted in next 2 months -1.476e-06  
## EVICTnot at all likely evicted in next 2 months NA  
## FORCLOSEvery likely forclosed in next 2 months 9.299e-07  
## FORCLOSEsomewhat likely forclosed in next 2 months -3.112e-06  
## FORCLOSEnot very likely forclosed in next 2 months -2.397e-06  
## FORCLOSEnot at all forclosed evicted in next 2 months NA  
## PRIVHLTHno private health ins 9.211e-07  
## PRIVHLTHNA 5.401e-07  
## PUBHLTHno public health ins 3.324e-08  
## PUBHLTHNA 5.036e-07  
## INCOMEHH income less than $25k -7.178e-07  
## INCOMEHH income $25k - $34.9k -2.072e-07  
## INCOMEHH income $35k - 49.9 1.653e-06  
## INCOMEHH income $50k - 74.9 -1.125e-07  
## INCOMEHH income $75 - 99.9 -4.018e-08  
## INCOMEHH income $100k - 149 1.013e-06  
## INCOMEHH income $150 - 199 9.571e-07  
## Works\_onsiteworked onsite 1.035e-06  
## Works\_onsiteno 2.423e-07  
## works\_remoteworked remotely 3.541e-07  
## works\_remoteno 3.906e-07  
## Shop\_in\_storeshopped in store -1.084e-06  
## Shop\_in\_storeno -7.055e-07  
## eat\_in\_restauranteat at restaurant indoors -6.157e-07  
## eat\_in\_restaurantno -5.957e-07  
## Std. Error z value  
## (Intercept) 4.734e+05 0  
## RHISPANICHispanic 1.062e+05 0  
## RRACEBlack 6.949e+04 0  
## RRACEAsian 1.215e+05 0  
## RRACEOther 1.073e+05 0  
## EEDUCsome hs 4.663e+05 0  
## EEDUCHS diploma 4.424e+05 0  
## EEDUCsome coll 4.428e+05 0  
## EEDUCassoc deg 4.481e+05 0  
## EEDUCbach deg 4.458e+05 0  
## EEDUCadv deg 4.459e+05 0  
## MSmarried 3.686e+05 0  
## MSwidowed 3.823e+05 0  
## MSdivorced 3.707e+05 0  
## MSseparated 4.018e+05 0  
## MSnever 3.717e+05 0  
## EGENID\_BIRTHfemale 2.878e+05 0  
## GENID\_DESCRIBEmale 5.022e+05 0  
## GENID\_DESCRIBEfemale 5.472e+05 0  
## GENID\_DESCRIBEtransgender 8.077e+05 0  
## GENID\_DESCRIBEother 5.630e+05 0  
## SEXUAL\_ORIENTATIONgay or lesbian 2.080e+05 0  
## SEXUAL\_ORIENTATIONstraight 1.850e+05 0  
## SEXUAL\_ORIENTATIONbisexual 2.101e+05 0  
## SEXUAL\_ORIENTATIONsomething else 2.934e+05 0  
## SEXUAL\_ORIENTATIONdont know 2.642e+05 0  
## RECVDVACCTRUE 5.063e+05 0  
## DOSESRVyes got all doses 3.481e+05 0  
## DOSESRVyes plan to get all doses 3.687e+05 0  
## DOSESRVno will not get all doses 4.407e+05 0  
## GETVACRVdefinitely will get vaxx 4.397e+05 0  
## GETVACRVprobably will get vaxx 4.513e+05 0  
## GETVACRVunsure about vaxx 3.993e+05 0  
## GETVACRVprobably not 3.873e+05 0  
## GETVACRVdefinitely not 3.899e+05 0  
## KIDDOSESYes kids got or will get all doses 6.175e+04 0  
## KIDDOSESno kids did not or will not 5.613e+05 0  
## KIDGETVACdefinitely will get vaxx 5.999e+05 0  
## KIDGETVACprobably will get vaxx 4.040e+05 0  
## KIDGETVACunsure about vaxx 5.871e+05 0  
## KIDGETVACprobably not 5.831e+05 0  
## KIDGETVACdefinitely not 5.846e+05 0  
## KIDGETVACdont know yet 7.077e+05 0  
## HADCOVIDyes doctor told had covid 2.984e+05 0  
## HADCOVIDno did not 2.970e+05 0  
## HADCOVIDnot sure 5.994e+05 0  
## WRKLOSSRVyes recent HH job loss 3.643e+05 0  
## WRKLOSSRVno recent HH job loss 3.583e+05 0  
## ANYWORKyes employment in last 7 days 2.896e+05 0  
## ANYWORKno employment in last 7 days 2.540e+05 0  
## KINDWORKwork for govt 1.599e+05 0  
## KINDWORKwork for private co 1.451e+05 0  
## KINDWORKwork for nonprofit 1.527e+05 0  
## KINDWORKself employed 1.603e+05 0  
## KINDWORKwork in family biz 1.964e+05 0  
## CURFOODSUFhad enough food 1.737e+05 0  
## CURFOODSUFhad enough but not what wanted 1.813e+05 0  
## CURFOODSUFsometimes not enough food 1.813e+05 0  
## CURFOODSUFoften not enough food 2.376e+05 0  
## CHILDFOODoften kids not eating enough because couldnt afford 3.290e+05 0  
## CHILDFOODsometimes kids not eating enough 1.899e+05 0  
## CHILDFOODkids got enough food 9.795e+04 0  
## ANXIOUSno anxiety over past 2 wks 3.577e+05 0  
## ANXIOUSseveral days anxiety over past 2 wks 3.537e+05 0  
## ANXIOUSmore than half the days anxiety over past 2 wks 3.601e+05 0  
## ANXIOUSnearly every day anxiety 3.622e+05 0  
## WORRYno worry over past 2 wks 3.295e+05 0  
## WORRYseveral days worried over past 2 wks 3.288e+05 0  
## WORRYmore than half the days worried over past 2 wks 3.359e+05 0  
## WORRYnearly every day worry 3.356e+05 0  
## TENUREhousing owned free and clear 3.603e+05 0  
## TENUREhousing owned with mortgage 5.211e+05 0  
## TENUREhousing rented 5.670e+05 0  
## TENUREhousing occupied without rent 4.542e+05 0  
## LIVQTRRVlive in mobile home 3.885e+05 0  
## LIVQTRRVlive in detached 1 family 3.635e+05 0  
## LIVQTRRVlive in 1 family attached to others 3.678e+05 0  
## LIVQTRRVlive in bldg w 2 apartments 4.225e+05 0  
## LIVQTRRVlive in building with 3-4 apts 3.843e+05 0  
## LIVQTRRVlive in bldg w 5+ apts 3.736e+05 0  
## LIVQTRRVlive in boat, RV, etc 4.633e+05 0  
## RENTCURcurrent on rent 4.305e+05 0  
## RENTCURbehind on rent 4.941e+05 0  
## MORTCURcurrent on mortgage 3.762e+05 0  
## MORTCURbehind on mortgage 4.004e+05 0  
## EVICTsomewhat likely evicted in next 2 months 3.572e+05 0  
## EVICTnot very likely evicted in next 2 months 4.376e+05 0  
## EVICTnot at all likely evicted in next 2 months NA NA  
## FORCLOSEvery likely forclosed in next 2 months 4.015e+05 0  
## FORCLOSEsomewhat likely forclosed in next 2 months 3.178e+05 0  
## FORCLOSEnot very likely forclosed in next 2 months 2.086e+05 0  
## FORCLOSEnot at all forclosed evicted in next 2 months NA NA  
## PRIVHLTHno private health ins 5.552e+04 0  
## PRIVHLTHNA 9.333e+04 0  
## PUBHLTHno public health ins 5.115e+04 0  
## PUBHLTHNA 8.224e+04 0  
## INCOMEHH income less than $25k 8.103e+04 0  
## INCOMEHH income $25k - $34.9k 7.630e+04 0  
## INCOMEHH income $35k - 49.9 7.255e+04 0  
## INCOMEHH income $50k - 74.9 7.390e+04 0  
## INCOMEHH income $75 - 99.9 7.943e+04 0  
## INCOMEHH income $100k - 149 9.150e+04 0  
## INCOMEHH income $150 - 199 1.023e+05 0  
## Works\_onsiteworked onsite 1.675e+05 0  
## Works\_onsiteno 1.651e+05 0  
## works\_remoteworked remotely 1.331e+05 0  
## works\_remoteno 1.295e+05 0  
## Shop\_in\_storeshopped in store 1.750e+05 0  
## Shop\_in\_storeno 1.834e+05 0  
## eat\_in\_restauranteat at restaurant indoors 1.863e+05 0  
## eat\_in\_restaurantno 1.873e+05 0  
## Pr(>|z|)  
## (Intercept) 1  
## RHISPANICHispanic 1  
## RRACEBlack 1  
## RRACEAsian 1  
## RRACEOther 1  
## EEDUCsome hs 1  
## EEDUCHS diploma 1  
## EEDUCsome coll 1  
## EEDUCassoc deg 1  
## EEDUCbach deg 1  
## EEDUCadv deg 1  
## MSmarried 1  
## MSwidowed 1  
## MSdivorced 1  
## MSseparated 1  
## MSnever 1  
## EGENID\_BIRTHfemale 1  
## GENID\_DESCRIBEmale 1  
## GENID\_DESCRIBEfemale 1  
## GENID\_DESCRIBEtransgender 1  
## GENID\_DESCRIBEother 1  
## SEXUAL\_ORIENTATIONgay or lesbian 1  
## SEXUAL\_ORIENTATIONstraight 1  
## SEXUAL\_ORIENTATIONbisexual 1  
## SEXUAL\_ORIENTATIONsomething else 1  
## SEXUAL\_ORIENTATIONdont know 1  
## RECVDVACCTRUE 1  
## DOSESRVyes got all doses 1  
## DOSESRVyes plan to get all doses 1  
## DOSESRVno will not get all doses 1  
## GETVACRVdefinitely will get vaxx 1  
## GETVACRVprobably will get vaxx 1  
## GETVACRVunsure about vaxx 1  
## GETVACRVprobably not 1  
## GETVACRVdefinitely not 1  
## KIDDOSESYes kids got or will get all doses 1  
## KIDDOSESno kids did not or will not 1  
## KIDGETVACdefinitely will get vaxx 1  
## KIDGETVACprobably will get vaxx 1  
## KIDGETVACunsure about vaxx 1  
## KIDGETVACprobably not 1  
## KIDGETVACdefinitely not 1  
## KIDGETVACdont know yet 1  
## HADCOVIDyes doctor told had covid 1  
## HADCOVIDno did not 1  
## HADCOVIDnot sure 1  
## WRKLOSSRVyes recent HH job loss 1  
## WRKLOSSRVno recent HH job loss 1  
## ANYWORKyes employment in last 7 days 1  
## ANYWORKno employment in last 7 days 1  
## KINDWORKwork for govt 1  
## KINDWORKwork for private co 1  
## KINDWORKwork for nonprofit 1  
## KINDWORKself employed 1  
## KINDWORKwork in family biz 1  
## CURFOODSUFhad enough food 1  
## CURFOODSUFhad enough but not what wanted 1  
## CURFOODSUFsometimes not enough food 1  
## CURFOODSUFoften not enough food 1  
## CHILDFOODoften kids not eating enough because couldnt afford 1  
## CHILDFOODsometimes kids not eating enough 1  
## CHILDFOODkids got enough food 1  
## ANXIOUSno anxiety over past 2 wks 1  
## ANXIOUSseveral days anxiety over past 2 wks 1  
## ANXIOUSmore than half the days anxiety over past 2 wks 1  
## ANXIOUSnearly every day anxiety 1  
## WORRYno worry over past 2 wks 1  
## WORRYseveral days worried over past 2 wks 1  
## WORRYmore than half the days worried over past 2 wks 1  
## WORRYnearly every day worry 1  
## TENUREhousing owned free and clear 1  
## TENUREhousing owned with mortgage 1  
## TENUREhousing rented 1  
## TENUREhousing occupied without rent 1  
## LIVQTRRVlive in mobile home 1  
## LIVQTRRVlive in detached 1 family 1  
## LIVQTRRVlive in 1 family attached to others 1  
## LIVQTRRVlive in bldg w 2 apartments 1  
## LIVQTRRVlive in building with 3-4 apts 1  
## LIVQTRRVlive in bldg w 5+ apts 1  
## LIVQTRRVlive in boat, RV, etc 1  
## RENTCURcurrent on rent 1  
## RENTCURbehind on rent 1  
## MORTCURcurrent on mortgage 1  
## MORTCURbehind on mortgage 1  
## EVICTsomewhat likely evicted in next 2 months 1  
## EVICTnot very likely evicted in next 2 months 1  
## EVICTnot at all likely evicted in next 2 months NA  
## FORCLOSEvery likely forclosed in next 2 months 1  
## FORCLOSEsomewhat likely forclosed in next 2 months 1  
## FORCLOSEnot very likely forclosed in next 2 months 1  
## FORCLOSEnot at all forclosed evicted in next 2 months NA  
## PRIVHLTHno private health ins 1  
## PRIVHLTHNA 1  
## PUBHLTHno public health ins 1  
## PUBHLTHNA 1  
## INCOMEHH income less than $25k 1  
## INCOMEHH income $25k - $34.9k 1  
## INCOMEHH income $35k - 49.9 1  
## INCOMEHH income $50k - 74.9 1  
## INCOMEHH income $75 - 99.9 1  
## INCOMEHH income $100k - 149 1  
## INCOMEHH income $150 - 199 1  
## Works\_onsiteworked onsite 1  
## Works\_onsiteno 1  
## works\_remoteworked remotely 1  
## works\_remoteno 1  
## Shop\_in\_storeshopped in store 1  
## Shop\_in\_storeno 1  
## eat\_in\_restauranteat at restaurant indoors 1  
## eat\_in\_restaurantno 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 4.2751e+02 on 514 degrees of freedom  
## Residual deviance: 2.9878e-09 on 406 degrees of freedom  
## AIC: 218  
##   
## Number of Fisher Scoring iterations: 25

# From the result of the logit regression model;there was no feature that have a significant causal relationship with vaxx because all there P-values were greater than 0.05.

plot(model\_logit1)

## Warning: not plotting observations with leverage one:  
## 172, 215, 237, 244, 269, 274, 318, 361, 369, 468, 487



library(stargazer)

##   
## Please cite as:

## Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary Statistics Tables.

## R package version 5.2.2. https://CRAN.R-project.org/package=stargazer

stargazer(model\_logit1,type="text")

##   
## ========================================================================================  
## Dependent variable:   
## ---------------------------  
## vaxx   
## ----------------------------------------------------------------------------------------  
## RHISPANICHispanic 0.00000   
## (106,163.300)   
##   
## RRACEBlack -0.00000   
## (69,485.770)   
##   
## RRACEAsian -0.00000   
## (121,511.500)   
##   
## RRACEOther 0.00000   
## (107,278.700)   
##   
## EEDUCsome hs -0.00000   
## (466,258.400)   
##   
## EEDUCHS diploma -0.00000   
## (442,404.200)   
##   
## EEDUCsome coll -0.00000   
## (442,825.800)   
##   
## EEDUCassoc deg 0.00000   
## (448,103.500)   
##   
## EEDUCbach deg 0.00000   
## (445,756.200)   
##   
## EEDUCadv deg -0.00000   
## (445,914.400)   
##   
## MSmarried -0.00000   
## (368,628.300)   
##   
## MSwidowed -0.00000   
## (382,331.600)   
##   
## MSdivorced -0.00000   
## (370,706.900)   
##   
## MSseparated -0.00000   
## (401,773.000)   
##   
## MSnever -0.00000   
## (371,745.800)   
##   
## EGENID\_BIRTHfemale -0.00000   
## (287,755.800)   
##   
## GENID\_DESCRIBEmale 0.00000   
## (502,195.100)   
##   
## GENID\_DESCRIBEfemale 0.00001   
## (547,164.900)   
##   
## GENID\_DESCRIBEtransgender 0.00000   
## (807,741.700)   
##   
## GENID\_DESCRIBEother 0.00000   
## (562,983.300)   
##   
## SEXUAL\_ORIENTATIONgay or lesbian -0.00000   
## (207,959.200)   
##   
## SEXUAL\_ORIENTATIONstraight -0.00000   
## (184,962.700)   
##   
## SEXUAL\_ORIENTATIONbisexual -0.00000   
## (210,078.500)   
##   
## SEXUAL\_ORIENTATIONsomething else -0.00000   
## (293,363.700)   
##   
## SEXUAL\_ORIENTATIONdont know -0.00000   
## (264,182.100)   
##   
## RECVDVACC 53.132   
## (506,263.700)   
##   
## DOSESRVyes got all doses -0.00000   
## (348,058.100)   
##   
## DOSESRVyes plan to get all doses -0.00000   
## (368,685.700)   
##   
## DOSESRVno will not get all doses -0.00000   
## (440,707.100)   
##   
## GETVACRVdefinitely will get vaxx 0.00000   
## (439,721.900)   
##   
## GETVACRVprobably will get vaxx 0.00000   
## (451,264.900)   
##   
## GETVACRVunsure about vaxx 0.00000   
## (399,321.900)   
##   
## GETVACRVprobably not 0.00000   
## (387,316.900)   
##   
## GETVACRVdefinitely not 0.00000   
## (389,854.200)   
##   
## KIDDOSESYes kids got or will get all doses 0.00000   
## (61,746.380)   
##   
## KIDDOSESno kids did not or will not 0.00000   
## (561,281.400)   
##   
## KIDGETVACdefinitely will get vaxx 0.00000   
## (599,937.300)   
##   
## KIDGETVACprobably will get vaxx 0.00000   
## (403,971.900)   
##   
## KIDGETVACunsure about vaxx -0.00000   
## (587,067.100)   
##   
## KIDGETVACprobably not -0.00000   
## (583,117.100)   
##   
## KIDGETVACdefinitely not -0.00000   
## (584,626.400)   
##   
## KIDGETVACdont know yet 0.00000   
## (707,735.200)   
##   
## HADCOVIDyes doctor told had covid -0.00000   
## (298,374.500)   
##   
## HADCOVIDno did not -0.00000   
## (297,026.600)   
##   
## HADCOVIDnot sure -0.00001   
## (599,374.300)   
##   
## WRKLOSSRVyes recent HH job loss 0.00000   
## (364,321.100)   
##   
## WRKLOSSRVno recent HH job loss 0.00000   
## (358,324.000)   
##   
## ANYWORKyes employment in last 7 days 0.00000   
## (289,629.200)   
##   
## ANYWORKno employment in last 7 days 0.00000   
## (254,004.300)   
##   
## KINDWORKwork for govt 0.00000   
## (159,924.700)   
##   
## KINDWORKwork for private co 0.00000   
## (145,051.400)   
##   
## KINDWORKwork for nonprofit 0.00000   
## (152,670.500)   
##   
## KINDWORKself employed 0.00000   
## (160,341.300)   
##   
## KINDWORKwork in family biz 0.00000   
## (196,389.500)   
##   
## CURFOODSUFhad enough food 0.00000   
## (173,713.900)   
##   
## CURFOODSUFhad enough but not what wanted 0.00000   
## (181,266.000)   
##   
## CURFOODSUFsometimes not enough food 0.000   
## (181,279.200)   
##   
## CURFOODSUFoften not enough food 0.00000   
## (237,562.900)   
##   
## CHILDFOODoften kids not eating enough because couldnt afford -0.00000   
## (329,028.500)   
##   
## CHILDFOODsometimes kids not eating enough -0.00000   
## (189,924.700)   
##   
## CHILDFOODkids got enough food -0.00000   
## (97,948.600)   
##   
## ANXIOUSno anxiety over past 2 wks 0.00000   
## (357,702.700)   
##   
## ANXIOUSseveral days anxiety over past 2 wks 0.00000   
## (353,675.300)   
##   
## ANXIOUSmore than half the days anxiety over past 2 wks 0.00000   
## (360,130.100)   
##   
## ANXIOUSnearly every day anxiety 0.00000   
## (362,215.300)   
##   
## WORRYno worry over past 2 wks 0.00000   
## (329,520.200)   
##   
## WORRYseveral days worried over past 2 wks -0.00000   
## (328,832.400)   
##   
## WORRYmore than half the days worried over past 2 wks -0.00000   
## (335,904.700)   
##   
## WORRYnearly every day worry 0.00000   
## (335,622.600)   
##   
## TENUREhousing owned free and clear -0.00000   
## (360,257.700)   
##   
## TENUREhousing owned with mortgage -0.00000   
## (521,108.300)   
##   
## TENUREhousing rented 0.00000   
## (566,965.700)   
##   
## TENUREhousing occupied without rent -0.00000   
## (454,161.300)   
##   
## LIVQTRRVlive in mobile home 0.00000   
## (388,493.500)   
##   
## LIVQTRRVlive in detached 1 family 0.00000   
## (363,535.300)   
##   
## LIVQTRRVlive in 1 family attached to others 0.00000   
## (367,834.900)   
##   
## LIVQTRRVlive in bldg w 2 apartments -0.00000   
## (422,514.700)   
##   
## LIVQTRRVlive in building with 3-4 apts 0.00000   
## (384,296.700)   
##   
## LIVQTRRVlive in bldg w 5+ apts -0.00000   
## (373,616.400)   
##   
## LIVQTRRVlive in boat, RV, etc 0.00000   
## (463,308.800)   
##   
## RENTCURcurrent on rent -0.00000   
## (430,491.400)   
##   
## RENTCURbehind on rent 0.00000   
## (494,074.900)   
##   
## MORTCURcurrent on mortgage -0.00000   
## (376,225.600)   
##   
## MORTCURbehind on mortgage 0.00000   
## (400,379.300)   
##   
## EVICTsomewhat likely evicted in next 2 months -0.00000   
## (357,239.700)   
##   
## EVICTnot very likely evicted in next 2 months -0.00000   
## (437,647.700)   
##   
## EVICTnot at all likely evicted in next 2 months   
##   
##   
## FORCLOSEvery likely forclosed in next 2 months 0.00000   
## (401,450.200)   
##   
## FORCLOSEsomewhat likely forclosed in next 2 months -0.00000   
## (317,817.300)   
##   
## FORCLOSEnot very likely forclosed in next 2 months -0.00000   
## (208,598.400)   
##   
## FORCLOSEnot at all forclosed evicted in next 2 months   
##   
##   
## PRIVHLTHno private health ins 0.00000   
## (55,524.640)   
##   
## PRIVHLTHNA 0.00000   
## (93,331.750)   
##   
## PUBHLTHno public health ins 0.00000   
## (51,152.780)   
##   
## PUBHLTHNA 0.00000   
## (82,244.350)   
##   
## 25k -0.00000   
## (81,026.970)   
##   
## 34.9k -0.00000   
## (76,301.970)   
##   
## 35k - 49.9 0.00000   
## (72,551.660)   
##   
## 50k - 74.9 -0.00000   
## (73,896.970)   
##   
## 75 - 99.9 -0.00000   
## (79,428.590)   
##   
## 100k - 149 0.00000   
## (91,500.740)   
##   
## 150 - 199 0.00000   
## (102,332.300)   
##   
## Works\_onsiteworked onsite 0.00000   
## (167,452.000)   
##   
## Works\_onsiteno 0.00000   
## (165,075.100)   
##   
## works\_remoteworked remotely 0.00000   
## (133,092.000)   
##   
## works\_remoteno 0.00000   
## (129,477.000)   
##   
## Shop\_in\_storeshopped in store -0.00000   
## (175,016.900)   
##   
## Shop\_in\_storeno -0.00000   
## (183,414.000)   
##   
## eat\_in\_restauranteat at restaurant indoors -0.00000   
## (186,267.300)   
##   
## eat\_in\_restaurantno -0.00000   
## (187,299.500)   
##   
## Constant -26.566   
## (473,401.500)   
##   
## ----------------------------------------------------------------------------------------  
## Observations 515   
## Log Likelihood -0.000   
## Akaike Inf. Crit. 218.000   
## ========================================================================================  
## Note: \*p<0.1; \*\*p<0.05; \*\*\*p<0.01

#probit regression model

myprobit <- glm(vaxx ~., family = binomial(link = "probit"),   
 data = df\_ohio)

## Warning: glm.fit: algorithm did not converge

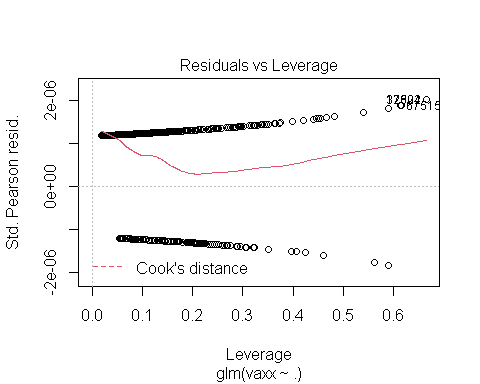
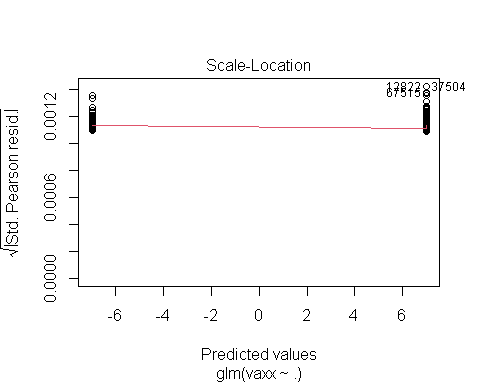
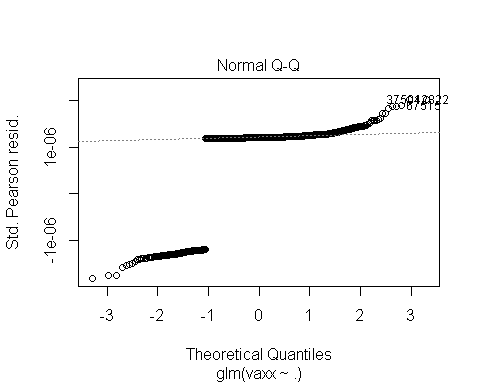
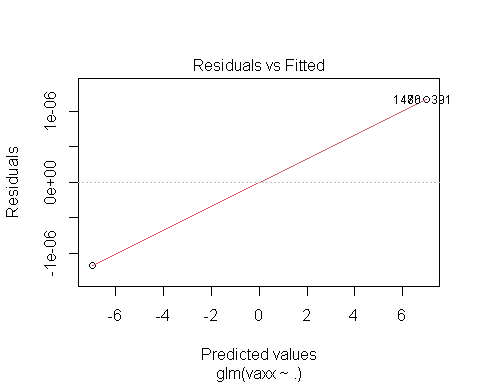
summary(myprobit)

##   
## Call:  
## glm(formula = vaxx ~ ., family = binomial(link = "probit"), data = df\_ohio)  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -1.651e-06 1.651e-06 1.651e-06 1.651e-06 1.651e-06   
##   
## Coefficients: (2 not defined because of singularities)  
## Estimate  
## (Intercept) -6.991e+00  
## RHISPANICHispanic 2.137e-06  
## RRACEBlack 9.496e-08  
## RRACEAsian 1.223e-07  
## RRACEOther 6.496e-08  
## EEDUCsome hs -1.961e-06  
## EEDUCHS diploma -1.675e-06  
## EEDUCsome coll -2.114e-06  
## EEDUCassoc deg -1.989e-06  
## EEDUCbach deg -1.765e-06  
## EEDUCadv deg -1.823e-06  
## MSmarried -1.904e-06  
## MSwidowed -1.647e-06  
## MSdivorced -1.662e-06  
## MSseparated -1.927e-06  
## MSnever -1.330e-06  
## EGENID\_BIRTHfemale 5.809e-07  
## GENID\_DESCRIBEmale 2.032e-06  
## GENID\_DESCRIBEfemale 1.583e-06  
## GENID\_DESCRIBEtransgender -1.644e-06  
## GENID\_DESCRIBEother 1.537e-06  
## SEXUAL\_ORIENTATIONgay or lesbian 6.691e-07  
## SEXUAL\_ORIENTATIONstraight -9.565e-07  
## SEXUAL\_ORIENTATIONbisexual -1.183e-06  
## SEXUAL\_ORIENTATIONsomething else -1.046e-06  
## SEXUAL\_ORIENTATIONdont know -1.150e-06  
## RECVDVACCTRUE 1.398e+01  
## DOSESRVyes got all doses -2.604e-07  
## DOSESRVyes plan to get all doses 1.474e-06  
## DOSESRVno will not get all doses 2.715e-07  
## GETVACRVdefinitely will get vaxx 5.699e-08  
## GETVACRVprobably will get vaxx 6.784e-07  
## GETVACRVunsure about vaxx -2.473e-07  
## GETVACRVprobably not -1.126e-07  
## GETVACRVdefinitely not -1.953e-07  
## KIDDOSESYes kids got or will get all doses 7.031e-08  
## KIDDOSESno kids did not or will not 2.711e-06  
## KIDGETVACdefinitely will get vaxx -3.534e-06  
## KIDGETVACprobably will get vaxx -6.343e-07  
## KIDGETVACunsure about vaxx -8.242e-07  
## KIDGETVACprobably not -2.879e-06  
## KIDGETVACdefinitely not -2.902e-06  
## KIDGETVACdont know yet -1.840e-06  
## HADCOVIDyes doctor told had covid -6.120e-07  
## HADCOVIDno did not 1.154e-08  
## HADCOVIDnot sure -2.306e-06  
## WRKLOSSRVyes recent HH job loss 2.239e-06  
## WRKLOSSRVno recent HH job loss 1.498e-06  
## ANYWORKyes employment in last 7 days -1.170e-06  
## ANYWORKno employment in last 7 days -8.422e-07  
## KINDWORKwork for govt 5.318e-07  
## KINDWORKwork for private co 2.365e-07  
## KINDWORKwork for nonprofit 2.176e-06  
## KINDWORKself employed 3.360e-07  
## KINDWORKwork in family biz 3.066e-06  
## CURFOODSUFhad enough food 2.721e-06  
## CURFOODSUFhad enough but not what wanted 3.033e-06  
## CURFOODSUFsometimes not enough food 5.006e-06  
## CURFOODSUFoften not enough food 2.846e-06  
## CHILDFOODoften kids not eating enough because couldnt afford -1.816e-06  
## CHILDFOODsometimes kids not eating enough -1.593e-06  
## CHILDFOODkids got enough food -4.159e-07  
## ANXIOUSno anxiety over past 2 wks -2.016e-06  
## ANXIOUSseveral days anxiety over past 2 wks -2.464e-06  
## ANXIOUSmore than half the days anxiety over past 2 wks -2.123e-06  
## ANXIOUSnearly every day anxiety -1.976e-06  
## WORRYno worry over past 2 wks -3.763e-08  
## WORRYseveral days worried over past 2 wks -5.328e-08  
## WORRYmore than half the days worried over past 2 wks 1.898e-07  
## WORRYnearly every day worry 2.275e-07  
## TENUREhousing owned free and clear -3.464e-07  
## TENUREhousing owned with mortgage -1.517e-06  
## TENUREhousing rented -3.458e-07  
## TENUREhousing occupied without rent -2.528e-06  
## LIVQTRRVlive in mobile home -1.075e-06  
## LIVQTRRVlive in detached 1 family -8.789e-07  
## LIVQTRRVlive in 1 family attached to others -9.305e-07  
## LIVQTRRVlive in bldg w 2 apartments -1.250e-06  
## LIVQTRRVlive in building with 3-4 apts -9.336e-07  
## LIVQTRRVlive in bldg w 5+ apts -1.001e-06  
## LIVQTRRVlive in boat, RV, etc -1.211e-06  
## RENTCURcurrent on rent 7.411e-08  
## RENTCURbehind on rent 3.842e-07  
## MORTCURcurrent on mortgage 1.462e-06  
## MORTCURbehind on mortgage 6.923e-07  
## EVICTvery likely evicted in next 2 months -2.042e-06  
## EVICTsomewhat likely evicted in next 2 months -1.319e-06  
## EVICTnot very likely evicted in next 2 months 8.758e-08  
## EVICTnot at all likely evicted in next 2 months NA  
## FORCLOSEvery likely forclosed in next 2 months 5.414e-08  
## FORCLOSEsomewhat likely forclosed in next 2 months 2.855e-06  
## FORCLOSEnot very likely forclosed in next 2 months -1.622e-07  
## FORCLOSEnot at all forclosed evicted in next 2 months NA  
## PRIVHLTHno private health ins -6.552e-07  
## PRIVHLTHNA -1.203e-06  
## PUBHLTHno public health ins -3.298e-07  
## PUBHLTHNA 1.195e-07  
## INCOMEHH income less than $25k -3.450e-07  
## INCOMEHH income $25k - $34.9k 1.029e-06  
## INCOMEHH income $35k - 49.9 5.232e-07  
## INCOMEHH income $50k - 74.9 6.786e-07  
## INCOMEHH income $75 - 99.9 -2.346e-08  
## INCOMEHH income $100k - 149 5.046e-07  
## INCOMEHH income $150 - 199 6.124e-07  
## Works\_onsiteworked onsite 1.513e-06  
## Works\_onsiteno 1.827e-06  
## works\_remoteworked remotely -2.990e-06  
## works\_remoteno -2.552e-06  
## Shop\_in\_storeshopped in store 5.393e-07  
## Shop\_in\_storeno 3.919e-08  
## eat\_in\_restauranteat at restaurant indoors -3.430e-07  
## eat\_in\_restaurantno 1.362e-07  
## Std. Error z value  
## (Intercept) 4.887e+04 0  
## RHISPANICHispanic 1.437e+04 0  
## RRACEBlack 9.683e+03 0  
## RRACEAsian 1.446e+04 0  
## RRACEOther 1.442e+04 0  
## EEDUCsome hs 4.791e+04 0  
## EEDUCHS diploma 4.246e+04 0  
## EEDUCsome coll 4.230e+04 0  
## EEDUCassoc deg 4.275e+04 0  
## EEDUCbach deg 4.238e+04 0  
## EEDUCadv deg 4.248e+04 0  
## MSmarried 3.908e+04 0  
## MSwidowed 4.052e+04 0  
## MSdivorced 3.936e+04 0  
## MSseparated 4.360e+04 0  
## MSnever 3.952e+04 0  
## EGENID\_BIRTHfemale 2.807e+04 0  
## GENID\_DESCRIBEmale 3.824e+04 0  
## GENID\_DESCRIBEfemale 3.936e+04 0  
## GENID\_DESCRIBEtransgender 7.152e+04 0  
## GENID\_DESCRIBEother 4.577e+04 0  
## SEXUAL\_ORIENTATIONgay or lesbian 2.845e+04 0  
## SEXUAL\_ORIENTATIONstraight 2.603e+04 0  
## SEXUAL\_ORIENTATIONbisexual 3.005e+04 0  
## SEXUAL\_ORIENTATIONsomething else 3.534e+04 0  
## SEXUAL\_ORIENTATIONdont know 3.433e+04 0  
## RECVDVACCTRUE 4.757e+04 0  
## DOSESRVyes got all doses 3.594e+04 0  
## DOSESRVyes plan to get all doses 3.980e+04 0  
## DOSESRVno will not get all doses 5.062e+04 0  
## GETVACRVdefinitely will get vaxx 4.513e+04 0  
## GETVACRVprobably will get vaxx 4.616e+04 0  
## GETVACRVunsure about vaxx 3.896e+04 0  
## GETVACRVprobably not 3.736e+04 0  
## GETVACRVdefinitely not 3.671e+04 0  
## KIDDOSESYes kids got or will get all doses 8.796e+03 0  
## KIDDOSESno kids did not or will not 8.869e+04 0  
## KIDGETVACdefinitely will get vaxx 9.463e+04 0  
## KIDGETVACprobably will get vaxx 7.871e+04 0  
## KIDGETVACunsure about vaxx 9.335e+04 0  
## KIDGETVACprobably not 9.123e+04 0  
## KIDGETVACdefinitely not 9.085e+04 0  
## KIDGETVACdont know yet 9.321e+04 0  
## HADCOVIDyes doctor told had covid 3.318e+04 0  
## HADCOVIDno did not 3.266e+04 0  
## HADCOVIDnot sure 6.622e+04 0  
## WRKLOSSRVyes recent HH job loss 3.772e+04 0  
## WRKLOSSRVno recent HH job loss 3.684e+04 0  
## ANYWORKyes employment in last 7 days 3.665e+04 0  
## ANYWORKno employment in last 7 days 3.017e+04 0  
## KINDWORKwork for govt 2.383e+04 0  
## KINDWORKwork for private co 2.244e+04 0  
## KINDWORKwork for nonprofit 2.357e+04 0  
## KINDWORKself employed 2.402e+04 0  
## KINDWORKwork in family biz 3.124e+04 0  
## CURFOODSUFhad enough food 2.362e+04 0  
## CURFOODSUFhad enough but not what wanted 2.439e+04 0  
## CURFOODSUFsometimes not enough food 2.523e+04 0  
## CURFOODSUFoften not enough food 3.210e+04 0  
## CHILDFOODoften kids not eating enough because couldnt afford 3.952e+04 0  
## CHILDFOODsometimes kids not eating enough 2.592e+04 0  
## CHILDFOODkids got enough food 1.327e+04 0  
## ANXIOUSno anxiety over past 2 wks 6.195e+04 0  
## ANXIOUSseveral days anxiety over past 2 wks 6.150e+04 0  
## ANXIOUSmore than half the days anxiety over past 2 wks 6.230e+04 0  
## ANXIOUSnearly every day anxiety 6.173e+04 0  
## WORRYno worry over past 2 wks 5.870e+04 0  
## WORRYseveral days worried over past 2 wks 5.845e+04 0  
## WORRYmore than half the days worried over past 2 wks 5.908e+04 0  
## WORRYnearly every day worry 5.861e+04 0  
## TENUREhousing owned free and clear 4.099e+04 0  
## TENUREhousing owned with mortgage 8.560e+04 0  
## TENUREhousing rented 8.774e+04 0  
## TENUREhousing occupied without rent 4.863e+04 0  
## LIVQTRRVlive in mobile home 4.475e+04 0  
## LIVQTRRVlive in detached 1 family 3.972e+04 0  
## LIVQTRRVlive in 1 family attached to others 4.041e+04 0  
## LIVQTRRVlive in bldg w 2 apartments 4.415e+04 0  
## LIVQTRRVlive in building with 3-4 apts 4.254e+04 0  
## LIVQTRRVlive in bldg w 5+ apts 4.147e+04 0  
## LIVQTRRVlive in boat, RV, etc 6.278e+04 0  
## RENTCURcurrent on rent 7.810e+04 0  
## RENTCURbehind on rent 8.308e+04 0  
## MORTCURcurrent on mortgage 7.585e+04 0  
## MORTCURbehind on mortgage 7.887e+04 0  
## EVICTvery likely evicted in next 2 months 6.416e+04 0  
## EVICTsomewhat likely evicted in next 2 months 5.478e+04 0  
## EVICTnot very likely evicted in next 2 months 4.780e+04 0  
## EVICTnot at all likely evicted in next 2 months NA NA  
## FORCLOSEvery likely forclosed in next 2 months 7.903e+04 0  
## FORCLOSEsomewhat likely forclosed in next 2 months 6.039e+04 0  
## FORCLOSEnot very likely forclosed in next 2 months 3.206e+04 0  
## FORCLOSEnot at all forclosed evicted in next 2 months NA NA  
## PRIVHLTHno private health ins 7.844e+03 0  
## PRIVHLTHNA 1.254e+04 0  
## PUBHLTHno public health ins 7.125e+03 0  
## PUBHLTHNA 1.161e+04 0  
## INCOMEHH income less than $25k 1.087e+04 0  
## INCOMEHH income $25k - $34.9k 1.018e+04 0  
## INCOMEHH income $35k - 49.9 1.003e+04 0  
## INCOMEHH income $50k - 74.9 1.016e+04 0  
## INCOMEHH income $75 - 99.9 1.058e+04 0  
## INCOMEHH income $100k - 149 1.285e+04 0  
## INCOMEHH income $150 - 199 1.324e+04 0  
## Works\_onsiteworked onsite 2.107e+04 0  
## Works\_onsiteno 2.087e+04 0  
## works\_remoteworked remotely 1.826e+04 0  
## works\_remoteno 1.787e+04 0  
## Shop\_in\_storeshopped in store 2.294e+04 0  
## Shop\_in\_storeno 2.419e+04 0  
## eat\_in\_restauranteat at restaurant indoors 2.418e+04 0  
## eat\_in\_restaurantno 2.435e+04 0  
## Pr(>|z|)  
## (Intercept) 1  
## RHISPANICHispanic 1  
## RRACEBlack 1  
## RRACEAsian 1  
## RRACEOther 1  
## EEDUCsome hs 1  
## EEDUCHS diploma 1  
## EEDUCsome coll 1  
## EEDUCassoc deg 1  
## EEDUCbach deg 1  
## EEDUCadv deg 1  
## MSmarried 1  
## MSwidowed 1  
## MSdivorced 1  
## MSseparated 1  
## MSnever 1  
## EGENID\_BIRTHfemale 1  
## GENID\_DESCRIBEmale 1  
## GENID\_DESCRIBEfemale 1  
## GENID\_DESCRIBEtransgender 1  
## GENID\_DESCRIBEother 1  
## SEXUAL\_ORIENTATIONgay or lesbian 1  
## SEXUAL\_ORIENTATIONstraight 1  
## SEXUAL\_ORIENTATIONbisexual 1  
## SEXUAL\_ORIENTATIONsomething else 1  
## SEXUAL\_ORIENTATIONdont know 1  
## RECVDVACCTRUE 1  
## DOSESRVyes got all doses 1  
## DOSESRVyes plan to get all doses 1  
## DOSESRVno will not get all doses 1  
## GETVACRVdefinitely will get vaxx 1  
## GETVACRVprobably will get vaxx 1  
## GETVACRVunsure about vaxx 1  
## GETVACRVprobably not 1  
## GETVACRVdefinitely not 1  
## KIDDOSESYes kids got or will get all doses 1  
## KIDDOSESno kids did not or will not 1  
## KIDGETVACdefinitely will get vaxx 1  
## KIDGETVACprobably will get vaxx 1  
## KIDGETVACunsure about vaxx 1  
## KIDGETVACprobably not 1  
## KIDGETVACdefinitely not 1  
## KIDGETVACdont know yet 1  
## HADCOVIDyes doctor told had covid 1  
## HADCOVIDno did not 1  
## HADCOVIDnot sure 1  
## WRKLOSSRVyes recent HH job loss 1  
## WRKLOSSRVno recent HH job loss 1  
## ANYWORKyes employment in last 7 days 1  
## ANYWORKno employment in last 7 days 1  
## KINDWORKwork for govt 1  
## KINDWORKwork for private co 1  
## KINDWORKwork for nonprofit 1  
## KINDWORKself employed 1  
## KINDWORKwork in family biz 1  
## CURFOODSUFhad enough food 1  
## CURFOODSUFhad enough but not what wanted 1  
## CURFOODSUFsometimes not enough food 1  
## CURFOODSUFoften not enough food 1  
## CHILDFOODoften kids not eating enough because couldnt afford 1  
## CHILDFOODsometimes kids not eating enough 1  
## CHILDFOODkids got enough food 1  
## ANXIOUSno anxiety over past 2 wks 1  
## ANXIOUSseveral days anxiety over past 2 wks 1  
## ANXIOUSmore than half the days anxiety over past 2 wks 1  
## ANXIOUSnearly every day anxiety 1  
## WORRYno worry over past 2 wks 1  
## WORRYseveral days worried over past 2 wks 1  
## WORRYmore than half the days worried over past 2 wks 1  
## WORRYnearly every day worry 1  
## TENUREhousing owned free and clear 1  
## TENUREhousing owned with mortgage 1  
## TENUREhousing rented 1  
## TENUREhousing occupied without rent 1  
## LIVQTRRVlive in mobile home 1  
## LIVQTRRVlive in detached 1 family 1  
## LIVQTRRVlive in 1 family attached to others 1  
## LIVQTRRVlive in bldg w 2 apartments 1  
## LIVQTRRVlive in building with 3-4 apts 1  
## LIVQTRRVlive in bldg w 5+ apts 1  
## LIVQTRRVlive in boat, RV, etc 1  
## RENTCURcurrent on rent 1  
## RENTCURbehind on rent 1  
## MORTCURcurrent on mortgage 1  
## MORTCURbehind on mortgage 1  
## EVICTvery likely evicted in next 2 months 1  
## EVICTsomewhat likely evicted in next 2 months 1  
## EVICTnot very likely evicted in next 2 months 1  
## EVICTnot at all likely evicted in next 2 months NA  
## FORCLOSEvery likely forclosed in next 2 months 1  
## FORCLOSEsomewhat likely forclosed in next 2 months 1  
## FORCLOSEnot very likely forclosed in next 2 months 1  
## FORCLOSEnot at all forclosed evicted in next 2 months NA  
## PRIVHLTHno private health ins 1  
## PRIVHLTHNA 1  
## PUBHLTHno public health ins 1  
## PUBHLTHNA 1  
## INCOMEHH income less than $25k 1  
## INCOMEHH income $25k - $34.9k 1  
## INCOMEHH income $35k - 49.9 1  
## INCOMEHH income $50k - 74.9 1  
## INCOMEHH income $75 - 99.9 1  
## INCOMEHH income $100k - 149 1  
## INCOMEHH income $150 - 199 1  
## Works\_onsiteworked onsite 1  
## Works\_onsiteno 1  
## works\_remoteworked remotely 1  
## works\_remoteno 1  
## Shop\_in\_storeshopped in store 1  
## Shop\_in\_storeno 1  
## eat\_in\_restauranteat at restaurant indoors 1  
## eat\_in\_restaurantno 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 8.5147e+02 on 1029 degrees of freedom  
## Residual deviance: 2.8067e-09 on 920 degrees of freedom  
## AIC: 220  
##   
## Number of Fisher Scoring iterations: 25

# From the results of the probit regression model; there was no feature that have significant causal relationship with vaxx because all the P-values were greater than 0.05.

plot(myprobit)

## Warning: not plotting observations with leverage one:  
## 353, 432, 535, 717



library(stargazer)  
stargazer(myprobit,type="text")

##   
## ========================================================================================  
## Dependent variable:   
## ---------------------------  
## vaxx   
## ----------------------------------------------------------------------------------------  
## RHISPANICHispanic 0.00000   
## (14,370.190)   
##   
## RRACEBlack 0.00000   
## (9,682.636)   
##   
## RRACEAsian 0.00000   
## (14,455.420)   
##   
## RRACEOther 0.00000   
## (14,418.170)   
##   
## EEDUCsome hs -0.00000   
## (47,909.880)   
##   
## EEDUCHS diploma -0.00000   
## (42,461.810)   
##   
## EEDUCsome coll -0.00000   
## (42,297.220)   
##   
## EEDUCassoc deg -0.00000   
## (42,747.520)   
##   
## EEDUCbach deg -0.00000   
## (42,380.280)   
##   
## EEDUCadv deg -0.00000   
## (42,477.680)   
##   
## MSmarried -0.00000   
## (39,076.480)   
##   
## MSwidowed -0.00000   
## (40,519.320)   
##   
## MSdivorced -0.00000   
## (39,360.220)   
##   
## MSseparated -0.00000   
## (43,603.970)   
##   
## MSnever -0.00000   
## (39,522.800)   
##   
## EGENID\_BIRTHfemale 0.00000   
## (28,071.260)   
##   
## GENID\_DESCRIBEmale 0.00000   
## (38,240.250)   
##   
## GENID\_DESCRIBEfemale 0.00000   
## (39,360.060)   
##   
## GENID\_DESCRIBEtransgender -0.00000   
## (71,517.380)   
##   
## GENID\_DESCRIBEother 0.00000   
## (45,771.300)   
##   
## SEXUAL\_ORIENTATIONgay or lesbian 0.00000   
## (28,450.880)   
##   
## SEXUAL\_ORIENTATIONstraight -0.00000   
## (26,031.760)   
##   
## SEXUAL\_ORIENTATIONbisexual -0.00000   
## (30,054.910)   
##   
## SEXUAL\_ORIENTATIONsomething else -0.00000   
## (35,337.870)   
##   
## SEXUAL\_ORIENTATIONdont know -0.00000   
## (34,333.410)   
##   
## RECVDVACC 13.982   
## (47,573.840)   
##   
## DOSESRVyes got all doses -0.00000   
## (35,942.680)   
##   
## DOSESRVyes plan to get all doses 0.00000   
## (39,795.740)   
##   
## DOSESRVno will not get all doses 0.00000   
## (50,616.320)   
##   
## GETVACRVdefinitely will get vaxx 0.00000   
## (45,128.210)   
##   
## GETVACRVprobably will get vaxx 0.00000   
## (46,158.150)   
##   
## GETVACRVunsure about vaxx -0.00000   
## (38,963.540)   
##   
## GETVACRVprobably not -0.00000   
## (37,364.900)   
##   
## GETVACRVdefinitely not -0.00000   
## (36,709.340)   
##   
## KIDDOSESYes kids got or will get all doses 0.00000   
## (8,796.257)   
##   
## KIDDOSESno kids did not or will not 0.00000   
## (88,689.300)   
##   
## KIDGETVACdefinitely will get vaxx -0.00000   
## (94,631.180)   
##   
## KIDGETVACprobably will get vaxx -0.00000   
## (78,711.290)   
##   
## KIDGETVACunsure about vaxx -0.00000   
## (93,346.500)   
##   
## KIDGETVACprobably not -0.00000   
## (91,231.550)   
##   
## KIDGETVACdefinitely not -0.00000   
## (90,849.370)   
##   
## KIDGETVACdont know yet -0.00000   
## (93,214.890)   
##   
## HADCOVIDyes doctor told had covid -0.00000   
## (33,177.570)   
##   
## HADCOVIDno did not 0.000   
## (32,656.290)   
##   
## HADCOVIDnot sure -0.00000   
## (66,216.840)   
##   
## WRKLOSSRVyes recent HH job loss 0.00000   
## (37,715.900)   
##   
## WRKLOSSRVno recent HH job loss 0.00000   
## (36,840.570)   
##   
## ANYWORKyes employment in last 7 days -0.00000   
## (36,650.210)   
##   
## ANYWORKno employment in last 7 days -0.00000   
## (30,165.170)   
##   
## KINDWORKwork for govt 0.00000   
## (23,826.270)   
##   
## KINDWORKwork for private co 0.00000   
## (22,442.510)   
##   
## KINDWORKwork for nonprofit 0.00000   
## (23,572.060)   
##   
## KINDWORKself employed 0.00000   
## (24,022.920)   
##   
## KINDWORKwork in family biz 0.00000   
## (31,238.480)   
##   
## CURFOODSUFhad enough food 0.00000   
## (23,621.010)   
##   
## CURFOODSUFhad enough but not what wanted 0.00000   
## (24,387.810)   
##   
## CURFOODSUFsometimes not enough food 0.00001   
## (25,231.130)   
##   
## CURFOODSUFoften not enough food 0.00000   
## (32,104.540)   
##   
## CHILDFOODoften kids not eating enough because couldnt afford -0.00000   
## (39,516.810)   
##   
## CHILDFOODsometimes kids not eating enough -0.00000   
## (25,923.830)   
##   
## CHILDFOODkids got enough food -0.00000   
## (13,268.500)   
##   
## ANXIOUSno anxiety over past 2 wks -0.00000   
## (61,951.800)   
##   
## ANXIOUSseveral days anxiety over past 2 wks -0.00000   
## (61,503.060)   
##   
## ANXIOUSmore than half the days anxiety over past 2 wks -0.00000   
## (62,304.540)   
##   
## ANXIOUSnearly every day anxiety -0.00000   
## (61,735.000)   
##   
## WORRYno worry over past 2 wks -0.00000   
## (58,697.530)   
##   
## WORRYseveral days worried over past 2 wks -0.00000   
## (58,454.560)   
##   
## WORRYmore than half the days worried over past 2 wks 0.00000   
## (59,082.090)   
##   
## WORRYnearly every day worry 0.00000   
## (58,614.310)   
##   
## TENUREhousing owned free and clear -0.00000   
## (40,992.890)   
##   
## TENUREhousing owned with mortgage -0.00000   
## (85,597.200)   
##   
## TENUREhousing rented -0.00000   
## (87,737.000)   
##   
## TENUREhousing occupied without rent -0.00000   
## (48,631.180)   
##   
## LIVQTRRVlive in mobile home -0.00000   
## (44,748.510)   
##   
## LIVQTRRVlive in detached 1 family -0.00000   
## (39,721.820)   
##   
## LIVQTRRVlive in 1 family attached to others -0.00000   
## (40,411.100)   
##   
## LIVQTRRVlive in bldg w 2 apartments -0.00000   
## (44,146.580)   
##   
## LIVQTRRVlive in building with 3-4 apts -0.00000   
## (42,540.670)   
##   
## LIVQTRRVlive in bldg w 5+ apts -0.00000   
## (41,466.700)   
##   
## LIVQTRRVlive in boat, RV, etc -0.00000   
## (62,783.400)   
##   
## RENTCURcurrent on rent 0.00000   
## (78,100.700)   
##   
## RENTCURbehind on rent 0.00000   
## (83,080.760)   
##   
## MORTCURcurrent on mortgage 0.00000   
## (75,854.190)   
##   
## MORTCURbehind on mortgage 0.00000   
## (78,871.240)   
##   
## EVICTvery likely evicted in next 2 months -0.00000   
## (64,158.200)   
##   
## EVICTsomewhat likely evicted in next 2 months -0.00000   
## (54,775.750)   
##   
## EVICTnot very likely evicted in next 2 months 0.00000   
## (47,796.530)   
##   
## EVICTnot at all likely evicted in next 2 months   
##   
##   
## FORCLOSEvery likely forclosed in next 2 months 0.00000   
## (79,030.820)   
##   
## FORCLOSEsomewhat likely forclosed in next 2 months 0.00000   
## (60,393.070)   
##   
## FORCLOSEnot very likely forclosed in next 2 months -0.00000   
## (32,059.950)   
##   
## FORCLOSEnot at all forclosed evicted in next 2 months   
##   
##   
## PRIVHLTHno private health ins -0.00000   
## (7,843.615)   
##   
## PRIVHLTHNA -0.00000   
## (12,543.390)   
##   
## PUBHLTHno public health ins -0.00000   
## (7,125.317)   
##   
## PUBHLTHNA 0.00000   
## (11,605.580)   
##   
## 25k -0.00000   
## (10,874.370)   
##   
## 34.9k 0.00000   
## (10,177.610)   
##   
## 35k - 49.9 0.00000   
## (10,027.220)   
##   
## 50k - 74.9 0.00000   
## (10,155.940)   
##   
## 75 - 99.9 -0.00000   
## (10,581.260)   
##   
## 100k - 149 0.00000   
## (12,854.150)   
##   
## 150 - 199 0.00000   
## (13,237.990)   
##   
## Works\_onsiteworked onsite 0.00000   
## (21,067.340)   
##   
## Works\_onsiteno 0.00000   
## (20,866.690)   
##   
## works\_remoteworked remotely -0.00000   
## (18,260.100)   
##   
## works\_remoteno -0.00000   
## (17,870.690)   
##   
## Shop\_in\_storeshopped in store 0.00000   
## (22,941.380)   
##   
## Shop\_in\_storeno 0.00000   
## (24,191.880)   
##   
## eat\_in\_restauranteat at restaurant indoors -0.00000   
## (24,180.540)   
##   
## eat\_in\_restaurantno 0.00000   
## (24,351.350)   
##   
## Constant -6.991   
## (48,868.420)   
##   
## ----------------------------------------------------------------------------------------  
## Observations 1,030   
## Log Likelihood -0.000   
## Akaike Inf. Crit. 220.000   
## ========================================================================================  
## Note: \*p<0.1; \*\*p<0.05; \*\*\*p<0.01

#OLS model

myOLS = lm(as.numeric(vaxx)~.,data = df\_ohio)  
summary(myOLS)

##   
## Call:  
## lm(formula = as.numeric(vaxx) ~ ., data = df\_ohio)  
##   
## Residuals:  
## Min 1Q Median 3Q Max   
## -4.620e-15 -3.140e-16 1.000e-17 2.560e-16 6.068e-14   
##   
## Coefficients: (2 not defined because of singularities)  
## Estimate  
## (Intercept) -4.164e-16  
## RHISPANICHispanic -6.557e-17  
## RRACEBlack -3.296e-17  
## RRACEAsian -3.278e-16  
## RRACEOther 9.135e-16  
## EEDUCsome hs 1.252e-15  
## EEDUCHS diploma 8.387e-17  
## EEDUCsome coll -5.488e-17  
## EEDUCassoc deg -2.644e-16  
## EEDUCbach deg -6.882e-16  
## EEDUCadv deg -6.798e-16  
## MSmarried -8.490e-16  
## MSwidowed -9.317e-16  
## MSdivorced -8.652e-16  
## MSseparated -1.518e-15  
## MSnever -7.223e-16  
## EGENID\_BIRTHfemale -1.614e-15  
## GENID\_DESCRIBEmale -2.807e-15  
## GENID\_DESCRIBEfemale -1.264e-15  
## GENID\_DESCRIBEtransgender -4.775e-15  
## GENID\_DESCRIBEother -2.301e-15  
## SEXUAL\_ORIENTATIONgay or lesbian -9.789e-16  
## SEXUAL\_ORIENTATIONstraight -8.247e-16  
## SEXUAL\_ORIENTATIONbisexual -5.594e-18  
## SEXUAL\_ORIENTATIONsomething else -1.267e-15  
## SEXUAL\_ORIENTATIONdont know -3.258e-16  
## RECVDVACCTRUE 1.000e+00  
## DOSESRVyes got all doses 2.420e-16  
## DOSESRVyes plan to get all doses 1.463e-16  
## DOSESRVno will not get all doses 6.368e-17  
## GETVACRVdefinitely will get vaxx -8.383e-16  
## GETVACRVprobably will get vaxx -6.220e-16  
## GETVACRVunsure about vaxx -5.584e-16  
## GETVACRVprobably not -4.486e-16  
## GETVACRVdefinitely not -4.231e-16  
## KIDDOSESYes kids got or will get all doses -1.405e-16  
## KIDDOSESno kids did not or will not 8.142e-17  
## KIDGETVACdefinitely will get vaxx -1.857e-16  
## KIDGETVACprobably will get vaxx -2.373e-16  
## KIDGETVACunsure about vaxx -8.110e-17  
## KIDGETVACprobably not -2.261e-16  
## KIDGETVACdefinitely not -7.164e-17  
## KIDGETVACdont know yet 2.047e-16  
## HADCOVIDyes doctor told had covid 3.835e-16  
## HADCOVIDno did not -8.389e-17  
## HADCOVIDnot sure 9.576e-16  
## WRKLOSSRVyes recent HH job loss -3.102e-16  
## WRKLOSSRVno recent HH job loss -5.905e-17  
## ANYWORKyes employment in last 7 days 4.202e-17  
## ANYWORKno employment in last 7 days 3.210e-17  
## KINDWORKwork for govt -1.293e-16  
## KINDWORKwork for private co -1.681e-16  
## KINDWORKwork for nonprofit -2.318e-16  
## KINDWORKself employed 8.964e-16  
## KINDWORKwork in family biz -2.229e-17  
## CURFOODSUFhad enough food -1.580e-16  
## CURFOODSUFhad enough but not what wanted -3.087e-16  
## CURFOODSUFsometimes not enough food -4.490e-16  
## CURFOODSUFoften not enough food -9.833e-17  
## CHILDFOODoften kids not eating enough because couldnt afford 6.888e-16  
## CHILDFOODsometimes kids not eating enough 4.131e-16  
## CHILDFOODkids got enough food -7.820e-17  
## ANXIOUSno anxiety over past 2 wks -6.161e-16  
## ANXIOUSseveral days anxiety over past 2 wks -5.436e-16  
## ANXIOUSmore than half the days anxiety over past 2 wks -8.019e-16  
## ANXIOUSnearly every day anxiety -7.672e-16  
## WORRYno worry over past 2 wks 2.548e-16  
## WORRYseveral days worried over past 2 wks 5.078e-16  
## WORRYmore than half the days worried over past 2 wks 4.990e-16  
## WORRYnearly every day worry 3.341e-16  
## TENUREhousing owned free and clear 2.252e-16  
## TENUREhousing owned with mortgage 7.656e-16  
## TENUREhousing rented 1.521e-16  
## TENUREhousing occupied without rent -2.221e-16  
## LIVQTRRVlive in mobile home 6.111e-17  
## LIVQTRRVlive in detached 1 family 2.994e-16  
## LIVQTRRVlive in 1 family attached to others -2.840e-18  
## LIVQTRRVlive in bldg w 2 apartments 2.885e-16  
## LIVQTRRVlive in building with 3-4 apts -2.534e-16  
## LIVQTRRVlive in bldg w 5+ apts -2.210e-17  
## LIVQTRRVlive in boat, RV, etc 1.585e-16  
## RENTCURcurrent on rent -2.696e-17  
## RENTCURbehind on rent -4.307e-16  
## MORTCURcurrent on mortgage -8.169e-16  
## MORTCURbehind on mortgage -9.882e-16  
## EVICTvery likely evicted in next 2 months 2.393e-16  
## EVICTsomewhat likely evicted in next 2 months 6.723e-16  
## EVICTnot very likely evicted in next 2 months -1.121e-16  
## EVICTnot at all likely evicted in next 2 months NA  
## FORCLOSEvery likely forclosed in next 2 months -2.610e-16  
## FORCLOSEsomewhat likely forclosed in next 2 months -1.265e-16  
## FORCLOSEnot very likely forclosed in next 2 months -7.695e-18  
## FORCLOSEnot at all forclosed evicted in next 2 months NA  
## PRIVHLTHno private health ins -2.585e-17  
## PRIVHLTHNA 1.237e-16  
## PUBHLTHno public health ins 2.817e-16  
## PUBHLTHNA 3.334e-17  
## INCOMEHH income less than $25k 6.228e-17  
## INCOMEHH income $25k - $34.9k 5.971e-16  
## INCOMEHH income $35k - 49.9 -1.063e-16  
## INCOMEHH income $50k - 74.9 -8.215e-17  
## INCOMEHH income $75 - 99.9 -1.155e-16  
## INCOMEHH income $100k - 149 -2.431e-16  
## INCOMEHH income $150 - 199 -1.772e-16  
## Works\_onsiteworked onsite 4.493e-16  
## Works\_onsiteno 2.782e-16  
## works\_remoteworked remotely -1.643e-16  
## works\_remoteno -1.547e-17  
## Shop\_in\_storeshopped in store 1.805e-16  
## Shop\_in\_storeno 1.559e-16  
## eat\_in\_restauranteat at restaurant indoors -2.815e-16  
## eat\_in\_restaurantno -1.098e-16  
## Std. Error  
## (Intercept) 1.370e-15  
## RHISPANICHispanic 4.029e-16  
## RRACEBlack 2.715e-16  
## RRACEAsian 4.053e-16  
## RRACEOther 4.043e-16  
## EEDUCsome hs 1.343e-15  
## EEDUCHS diploma 1.191e-15  
## EEDUCsome coll 1.186e-15  
## EEDUCassoc deg 1.199e-15  
## EEDUCbach deg 1.188e-15  
## EEDUCadv deg 1.191e-15  
## MSmarried 1.096e-15  
## MSwidowed 1.136e-15  
## MSdivorced 1.104e-15  
## MSseparated 1.223e-15  
## MSnever 1.108e-15  
## EGENID\_BIRTHfemale 7.871e-16  
## GENID\_DESCRIBEmale 1.072e-15  
## GENID\_DESCRIBEfemale 1.104e-15  
## GENID\_DESCRIBEtransgender 2.005e-15  
## GENID\_DESCRIBEother 1.283e-15  
## SEXUAL\_ORIENTATIONgay or lesbian 7.977e-16  
## SEXUAL\_ORIENTATIONstraight 7.299e-16  
## SEXUAL\_ORIENTATIONbisexual 8.427e-16  
## SEXUAL\_ORIENTATIONsomething else 9.908e-16  
## SEXUAL\_ORIENTATIONdont know 9.627e-16  
## RECVDVACCTRUE 1.334e-15  
## DOSESRVyes got all doses 1.008e-15  
## DOSESRVyes plan to get all doses 1.116e-15  
## DOSESRVno will not get all doses 1.419e-15  
## GETVACRVdefinitely will get vaxx 1.265e-15  
## GETVACRVprobably will get vaxx 1.294e-15  
## GETVACRVunsure about vaxx 1.092e-15  
## GETVACRVprobably not 1.048e-15  
## GETVACRVdefinitely not 1.029e-15  
## KIDDOSESYes kids got or will get all doses 2.466e-16  
## KIDDOSESno kids did not or will not 2.487e-15  
## KIDGETVACdefinitely will get vaxx 2.653e-15  
## KIDGETVACprobably will get vaxx 2.207e-15  
## KIDGETVACunsure about vaxx 2.617e-15  
## KIDGETVACprobably not 2.558e-15  
## KIDGETVACdefinitely not 2.547e-15  
## KIDGETVACdont know yet 2.614e-15  
## HADCOVIDyes doctor told had covid 9.302e-16  
## HADCOVIDno did not 9.156e-16  
## HADCOVIDnot sure 1.857e-15  
## WRKLOSSRVyes recent HH job loss 1.057e-15  
## WRKLOSSRVno recent HH job loss 1.033e-15  
## ANYWORKyes employment in last 7 days 1.028e-15  
## ANYWORKno employment in last 7 days 8.458e-16  
## KINDWORKwork for govt 6.680e-16  
## KINDWORKwork for private co 6.293e-16  
## KINDWORKwork for nonprofit 6.609e-16  
## KINDWORKself employed 6.736e-16  
## KINDWORKwork in family biz 8.759e-16  
## CURFOODSUFhad enough food 6.623e-16  
## CURFOODSUFhad enough but not what wanted 6.838e-16  
## CURFOODSUFsometimes not enough food 7.074e-16  
## CURFOODSUFoften not enough food 9.002e-16  
## CHILDFOODoften kids not eating enough because couldnt afford 1.108e-15  
## CHILDFOODsometimes kids not eating enough 7.269e-16  
## CHILDFOODkids got enough food 3.720e-16  
## ANXIOUSno anxiety over past 2 wks 1.737e-15  
## ANXIOUSseveral days anxiety over past 2 wks 1.724e-15  
## ANXIOUSmore than half the days anxiety over past 2 wks 1.747e-15  
## ANXIOUSnearly every day anxiety 1.731e-15  
## WORRYno worry over past 2 wks 1.646e-15  
## WORRYseveral days worried over past 2 wks 1.639e-15  
## WORRYmore than half the days worried over past 2 wks 1.657e-15  
## WORRYnearly every day worry 1.643e-15  
## TENUREhousing owned free and clear 1.149e-15  
## TENUREhousing owned with mortgage 2.400e-15  
## TENUREhousing rented 2.460e-15  
## TENUREhousing occupied without rent 1.364e-15  
## LIVQTRRVlive in mobile home 1.255e-15  
## LIVQTRRVlive in detached 1 family 1.114e-15  
## LIVQTRRVlive in 1 family attached to others 1.133e-15  
## LIVQTRRVlive in bldg w 2 apartments 1.238e-15  
## LIVQTRRVlive in building with 3-4 apts 1.193e-15  
## LIVQTRRVlive in bldg w 5+ apts 1.163e-15  
## LIVQTRRVlive in boat, RV, etc 1.760e-15  
## RENTCURcurrent on rent 2.190e-15  
## RENTCURbehind on rent 2.329e-15  
## MORTCURcurrent on mortgage 2.127e-15  
## MORTCURbehind on mortgage 2.211e-15  
## EVICTvery likely evicted in next 2 months 1.799e-15  
## EVICTsomewhat likely evicted in next 2 months 1.536e-15  
## EVICTnot very likely evicted in next 2 months 1.340e-15  
## EVICTnot at all likely evicted in next 2 months NA  
## FORCLOSEvery likely forclosed in next 2 months 2.216e-15  
## FORCLOSEsomewhat likely forclosed in next 2 months 1.693e-15  
## FORCLOSEnot very likely forclosed in next 2 months 8.989e-16  
## FORCLOSEnot at all forclosed evicted in next 2 months NA  
## PRIVHLTHno private health ins 2.199e-16  
## PRIVHLTHNA 3.517e-16  
## PUBHLTHno public health ins 1.998e-16  
## PUBHLTHNA 3.254e-16  
## INCOMEHH income less than $25k 3.049e-16  
## INCOMEHH income $25k - $34.9k 2.854e-16  
## INCOMEHH income $35k - 49.9 2.811e-16  
## INCOMEHH income $50k - 74.9 2.848e-16  
## INCOMEHH income $75 - 99.9 2.967e-16  
## INCOMEHH income $100k - 149 3.604e-16  
## INCOMEHH income $150 - 199 3.712e-16  
## Works\_onsiteworked onsite 5.907e-16  
## Works\_onsiteno 5.851e-16  
## works\_remoteworked remotely 5.120e-16  
## works\_remoteno 5.011e-16  
## Shop\_in\_storeshopped in store 6.432e-16  
## Shop\_in\_storeno 6.783e-16  
## eat\_in\_restauranteat at restaurant indoors 6.780e-16  
## eat\_in\_restaurantno 6.828e-16  
## t value  
## (Intercept) -3.040e-01  
## RHISPANICHispanic -1.630e-01  
## RRACEBlack -1.210e-01  
## RRACEAsian -8.090e-01  
## RRACEOther 2.260e+00  
## EEDUCsome hs 9.320e-01  
## EEDUCHS diploma 7.000e-02  
## EEDUCsome coll -4.600e-02  
## EEDUCassoc deg -2.210e-01  
## EEDUCbach deg -5.790e-01  
## EEDUCadv deg -5.710e-01  
## MSmarried -7.750e-01  
## MSwidowed -8.200e-01  
## MSdivorced -7.840e-01  
## MSseparated -1.241e+00  
## MSnever -6.520e-01  
## EGENID\_BIRTHfemale -2.051e+00  
## GENID\_DESCRIBEmale -2.618e+00  
## GENID\_DESCRIBEfemale -1.145e+00  
## GENID\_DESCRIBEtransgender -2.381e+00  
## GENID\_DESCRIBEother -1.793e+00  
## SEXUAL\_ORIENTATIONgay or lesbian -1.227e+00  
## SEXUAL\_ORIENTATIONstraight -1.130e+00  
## SEXUAL\_ORIENTATIONbisexual -7.000e-03  
## SEXUAL\_ORIENTATIONsomething else -1.278e+00  
## SEXUAL\_ORIENTATIONdont know -3.380e-01  
## RECVDVACCTRUE 7.497e+14  
## DOSESRVyes got all doses 2.400e-01  
## DOSESRVyes plan to get all doses 1.310e-01  
## DOSESRVno will not get all doses 4.500e-02  
## GETVACRVdefinitely will get vaxx -6.630e-01  
## GETVACRVprobably will get vaxx -4.810e-01  
## GETVACRVunsure about vaxx -5.110e-01  
## GETVACRVprobably not -4.280e-01  
## GETVACRVdefinitely not -4.110e-01  
## KIDDOSESYes kids got or will get all doses -5.700e-01  
## KIDDOSESno kids did not or will not 3.300e-02  
## KIDGETVACdefinitely will get vaxx -7.000e-02  
## KIDGETVACprobably will get vaxx -1.080e-01  
## KIDGETVACunsure about vaxx -3.100e-02  
## KIDGETVACprobably not -8.800e-02  
## KIDGETVACdefinitely not -2.800e-02  
## KIDGETVACdont know yet 7.800e-02  
## HADCOVIDyes doctor told had covid 4.120e-01  
## HADCOVIDno did not -9.200e-02  
## HADCOVIDnot sure 5.160e-01  
## WRKLOSSRVyes recent HH job loss -2.930e-01  
## WRKLOSSRVno recent HH job loss -5.700e-02  
## ANYWORKyes employment in last 7 days 4.100e-02  
## ANYWORKno employment in last 7 days 3.800e-02  
## KINDWORKwork for govt -1.940e-01  
## KINDWORKwork for private co -2.670e-01  
## KINDWORKwork for nonprofit -3.510e-01  
## KINDWORKself employed 1.331e+00  
## KINDWORKwork in family biz -2.500e-02  
## CURFOODSUFhad enough food -2.390e-01  
## CURFOODSUFhad enough but not what wanted -4.510e-01  
## CURFOODSUFsometimes not enough food -6.350e-01  
## CURFOODSUFoften not enough food -1.090e-01  
## CHILDFOODoften kids not eating enough because couldnt afford 6.220e-01  
## CHILDFOODsometimes kids not eating enough 5.680e-01  
## CHILDFOODkids got enough food -2.100e-01  
## ANXIOUSno anxiety over past 2 wks -3.550e-01  
## ANXIOUSseveral days anxiety over past 2 wks -3.150e-01  
## ANXIOUSmore than half the days anxiety over past 2 wks -4.590e-01  
## ANXIOUSnearly every day anxiety -4.430e-01  
## WORRYno worry over past 2 wks 1.550e-01  
## WORRYseveral days worried over past 2 wks 3.100e-01  
## WORRYmore than half the days worried over past 2 wks 3.010e-01  
## WORRYnearly every day worry 2.030e-01  
## TENUREhousing owned free and clear 1.960e-01  
## TENUREhousing owned with mortgage 3.190e-01  
## TENUREhousing rented 6.200e-02  
## TENUREhousing occupied without rent -1.630e-01  
## LIVQTRRVlive in mobile home 4.900e-02  
## LIVQTRRVlive in detached 1 family 2.690e-01  
## LIVQTRRVlive in 1 family attached to others -3.000e-03  
## LIVQTRRVlive in bldg w 2 apartments 2.330e-01  
## LIVQTRRVlive in building with 3-4 apts -2.120e-01  
## LIVQTRRVlive in bldg w 5+ apts -1.900e-02  
## LIVQTRRVlive in boat, RV, etc 9.000e-02  
## RENTCURcurrent on rent -1.200e-02  
## RENTCURbehind on rent -1.850e-01  
## MORTCURcurrent on mortgage -3.840e-01  
## MORTCURbehind on mortgage -4.470e-01  
## EVICTvery likely evicted in next 2 months 1.330e-01  
## EVICTsomewhat likely evicted in next 2 months 4.380e-01  
## EVICTnot very likely evicted in next 2 months -8.400e-02  
## EVICTnot at all likely evicted in next 2 months NA  
## FORCLOSEvery likely forclosed in next 2 months -1.180e-01  
## FORCLOSEsomewhat likely forclosed in next 2 months -7.500e-02  
## FORCLOSEnot very likely forclosed in next 2 months -9.000e-03  
## FORCLOSEnot at all forclosed evicted in next 2 months NA  
## PRIVHLTHno private health ins -1.180e-01  
## PRIVHLTHNA 3.520e-01  
## PUBHLTHno public health ins 1.410e+00  
## PUBHLTHNA 1.020e-01  
## INCOMEHH income less than $25k 2.040e-01  
## INCOMEHH income $25k - $34.9k 2.092e+00  
## INCOMEHH income $35k - 49.9 -3.780e-01  
## INCOMEHH income $50k - 74.9 -2.880e-01  
## INCOMEHH income $75 - 99.9 -3.890e-01  
## INCOMEHH income $100k - 149 -6.750e-01  
## INCOMEHH income $150 - 199 -4.770e-01  
## Works\_onsiteworked onsite 7.610e-01  
## Works\_onsiteno 4.750e-01  
## works\_remoteworked remotely -3.210e-01  
## works\_remoteno -3.100e-02  
## Shop\_in\_storeshopped in store 2.810e-01  
## Shop\_in\_storeno 2.300e-01  
## eat\_in\_restauranteat at restaurant indoors -4.150e-01  
## eat\_in\_restaurantno -1.610e-01  
## Pr(>|t|)   
## (Intercept) 0.76127   
## RHISPANICHispanic 0.87076   
## RRACEBlack 0.90339   
## RRACEAsian 0.41885   
## RRACEOther 0.02407 \*   
## EEDUCsome hs 0.35149   
## EEDUCHS diploma 0.94385   
## EEDUCsome coll 0.96310   
## EEDUCassoc deg 0.82545   
## EEDUCbach deg 0.56263   
## EEDUCadv deg 0.56828   
## MSmarried 0.43861   
## MSwidowed 0.41240   
## MSdivorced 0.43325   
## MSseparated 0.21480   
## MSnever 0.51470   
## EGENID\_BIRTHfemale 0.04057 \*   
## GENID\_DESCRIBEmale 0.00899 \*\*   
## GENID\_DESCRIBEfemale 0.25232   
## GENID\_DESCRIBEtransgender 0.01745 \*   
## GENID\_DESCRIBEother 0.07325 .   
## SEXUAL\_ORIENTATIONgay or lesbian 0.22009   
## SEXUAL\_ORIENTATIONstraight 0.25883   
## SEXUAL\_ORIENTATIONbisexual 0.99471   
## SEXUAL\_ORIENTATIONsomething else 0.20145   
## SEXUAL\_ORIENTATIONdont know 0.73511   
## RECVDVACCTRUE < 2e-16 \*\*\*  
## DOSESRVyes got all doses 0.81028   
## DOSESRVyes plan to get all doses 0.89572   
## DOSESRVno will not get all doses 0.96422   
## GETVACRVdefinitely will get vaxx 0.50778   
## GETVACRVprobably will get vaxx 0.63092   
## GETVACRVunsure about vaxx 0.60938   
## GETVACRVprobably not 0.66861   
## GETVACRVdefinitely not 0.68113   
## KIDDOSESYes kids got or will get all doses 0.56912   
## KIDDOSESno kids did not or will not 0.97389   
## KIDGETVACdefinitely will get vaxx 0.94423   
## KIDGETVACprobably will get vaxx 0.91440   
## KIDGETVACunsure about vaxx 0.97529   
## KIDGETVACprobably not 0.92960   
## KIDGETVACdefinitely not 0.97757   
## KIDGETVACdont know yet 0.93760   
## HADCOVIDyes doctor told had covid 0.68022   
## HADCOVIDno did not 0.92702   
## HADCOVIDnot sure 0.60614   
## WRKLOSSRVyes recent HH job loss 0.76932   
## WRKLOSSRVno recent HH job loss 0.95443   
## ANYWORKyes employment in last 7 days 0.96739   
## ANYWORKno employment in last 7 days 0.96973   
## KINDWORKwork for govt 0.84656   
## KINDWORKwork for private co 0.78940   
## KINDWORKwork for nonprofit 0.72586   
## KINDWORKself employed 0.18358   
## KINDWORKwork in family biz 0.97971   
## CURFOODSUFhad enough food 0.81148   
## CURFOODSUFhad enough but not what wanted 0.65181   
## CURFOODSUFsometimes not enough food 0.52581   
## CURFOODSUFoften not enough food 0.91304   
## CHILDFOODoften kids not eating enough because couldnt afford 0.53433   
## CHILDFOODsometimes kids not eating enough 0.56991   
## CHILDFOODkids got enough food 0.83355   
## ANXIOUSno anxiety over past 2 wks 0.72289   
## ANXIOUSseveral days anxiety over past 2 wks 0.75267   
## ANXIOUSmore than half the days anxiety over past 2 wks 0.64632   
## ANXIOUSnearly every day anxiety 0.65772   
## WORRYno worry over past 2 wks 0.87699   
## WORRYseveral days worried over past 2 wks 0.75675   
## WORRYmore than half the days worried over past 2 wks 0.76330   
## WORRYnearly every day worry 0.83896   
## TENUREhousing owned free and clear 0.84471   
## TENUREhousing owned with mortgage 0.74981   
## TENUREhousing rented 0.95070   
## TENUREhousing occupied without rent 0.87064   
## LIVQTRRVlive in mobile home 0.96116   
## LIVQTRRVlive in detached 1 family 0.78813   
## LIVQTRRVlive in 1 family attached to others 0.99800   
## LIVQTRRVlive in bldg w 2 apartments 0.81577   
## LIVQTRRVlive in building with 3-4 apts 0.83182   
## LIVQTRRVlive in bldg w 5+ apts 0.98484   
## LIVQTRRVlive in boat, RV, etc 0.92825   
## RENTCURcurrent on rent 0.99018   
## RENTCURbehind on rent 0.85335   
## MORTCURcurrent on mortgage 0.70099   
## MORTCURbehind on mortgage 0.65509   
## EVICTvery likely evicted in next 2 months 0.89420   
## EVICTsomewhat likely evicted in next 2 months 0.66166   
## EVICTnot very likely evicted in next 2 months 0.93333   
## EVICTnot at all likely evicted in next 2 months NA   
## FORCLOSEvery likely forclosed in next 2 months 0.90627   
## FORCLOSEsomewhat likely forclosed in next 2 months 0.94045   
## FORCLOSEnot very likely forclosed in next 2 months 0.99317   
## FORCLOSEnot at all forclosed evicted in next 2 months NA   
## PRIVHLTHno private health ins 0.90645   
## PRIVHLTHNA 0.72515   
## PUBHLTHno public health ins 0.15886   
## PUBHLTHNA 0.91842   
## INCOMEHH income less than $25k 0.83819   
## INCOMEHH income $25k - $34.9k 0.03669 \*   
## INCOMEHH income $35k - 49.9 0.70538   
## INCOMEHH income $50k - 74.9 0.77303   
## INCOMEHH income $75 - 99.9 0.69714   
## INCOMEHH income $100k - 149 0.50011   
## INCOMEHH income $150 - 199 0.63317   
## Works\_onsiteworked onsite 0.44706   
## Works\_onsiteno 0.63457   
## works\_remoteworked remotely 0.74834   
## works\_remoteno 0.97537   
## Shop\_in\_storeshopped in store 0.77912   
## Shop\_in\_storeno 0.81827   
## eat\_in\_restauranteat at restaurant indoors 0.67814   
## eat\_in\_restaurantno 0.87225   
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## Residual standard error: 2.074e-15 on 920 degrees of freedom  
## Multiple R-squared: 1, Adjusted R-squared: 1   
## F-statistic: 2.717e+29 on 109 and 920 DF, p-value: < 2.2e-16

Howerver , the OLS model performed quite well when we use vaxx variable as anumeric variable of 0 and 1.The following variables has significant causal relationship with vaxx because their P-values are less than 0.05 (a statical significant level)

.RACEother (P-\_value=0.02407)

.EGINID\_BIRTH\_female(P\_value=0.04057)

.GENID\_DESCRIBEmale(P\_value =0.00899) .GENID\_DESCRIBEtransgender(P\_value=0.01745)

.INCOMEHH$25k-$34.9k(P\_value=0.03669)