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Professor Leung

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ECON-124

Homework #1 Part B

6.)

a.) In my regression I chose to include the explanation variables “Education\_Years”, “Male”, and “Age” included with the mandatory variable “Voted\_Trump”. My results shows that if the person voted for trump there is a 8.7% logistic percentage increase that they use social media. For every year increase in education, its predicted that there is a 8.6% logistic percentage increase that they use social media. For every year increase in Age, its predicted that there is a ----4.8% logistic percentage decrease that they use social media. If a person is a Male, its predicted that there is a -34.5% logistic percentage decrease that they use social media compared to if it was female.

b.) The fit of my model is not that great, and results show me that only about 11% of variation in the data set is explained by the covariates I used. This also means their is 89% more unobserved factors driving variation on if a person uses social media. This model does not fit the data well

c.) According to my Model if the person Voted for Trump, its predicted their is a 9.1% increase

in the log odds that the person uses social media

7.) Among the articles respondents reported hearing about their were about 600 articles in Placebo, 750 in Small True, 1,500 in Fake, and 3,000 in BigTrue. About 3,750 of people who heard of articles believed they were true. Below are the barplots showing my results.

Chart, bar chart

Description automatically generated

8.)

a.) This question was very hard to understand and interpret but the way I interpret it gives me the results that if the article was a placebo article then their was a -15.9% decrease in log odds that respondent said they heard about it compared to the article being fake.

b.) My results are that if the person thought article was true, there was a 200% increase in log odds that they heard about article compared to thinking it was false.

9.) I assumed using the party variable that being a democrat is either 1 or 2, and being a republican is either 6 or 7 since 3/5 is “leaning” and does not technically mean they are affiliated with the party. I run the table command on my new “Repo”/”Demo” variables and they equate with the given column of being republican and democrat. The baseline variable would be if they are independent.

c.) My results from running my new indicators on K are as follows:

- Demo = 0.005 meaning that a person who is democrat its predicted they will answer

0.5% more accurately to if article was False or True.

- Repo = -0.01 meaning that if person is republican its predicted they will answer

-10% less accurately to if the article was false or true

d.)The other two variables I added that I thought would be interesting is the person Age because I feel that would make them more wise in spotting fake titles, and Media Minutes Per Day since they would know more about actual news and have a good sense of what is correct or not. When I added these control variables the effect of all the variables significantly decreased on accurately saying if article was false or true. All results came back to less than 1% effect.

10.) b.) My results are as follows:

- Demo = -0.033 meaning its predicted that if they are democrat they are -3.3% less

likely to think any article is true

- Repo= 0.013 meaning its predicted if person is republican they are 1.3% more likely

to think any article is true

c.) My results are as follows:

- Demo = -0.11 meaning its predicted that if they are democrat, they are -11% less

likely to think any article is true

- Repo= -0.08 meaning its predicted if person is republican they are -8% less likely

to think any article is true

-Demo\*ArticleProClinton = 0.153 + (-0.11)= 0.043 meaning its predicted if person is democrat

and the article was ProClinton, they are 4.3% more likely to believe it was true

-RepoTRUE\*ArticleProTrump = 0.189 + (-0.08)= 0.109 meaning its predicted if person is republican and the article was ProTrump, they are 10.9% more likely to believe it was true

- The results are NA because because the article is either pro Clinton or pro trump so when we regress, it doesn’t make sense to have results for both when if Clinton is true trump is obviously false