Phase 3: Final Model

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Run the libraries and load the data

Step 1: Run Final Models for H1 and H2

```
Call:
glm(formula = trust_vote ~ perception_misinfo + age + profile_educ5 +
    party_id + gender, family = binomial(link = "logit"), data = d)

Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
(Intercept)        -0.34365    0.23675  -1.452    0.147
perception_misinfo  0.29637    0.04074   7.274 3.49e-13 ***
age                 0.31470    0.04509   6.979 2.98e-12 ***
profile_educ5       0.41557    0.04113  10.104  < 2e-16 ***
party_id           -1.54569    0.04840 -31.934  < 2e-16 ***
gender             -0.35936    0.08494  -4.231 2.33e-05 ***
```

```
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 5378.3  on 3882  degrees of freedom
Residual deviance: 3690.7  on 3877  degrees of freedom
AIC: 3702.7

Number of Fisher Scoring iterations: 4
```

Step 2: Predicted Probabilities and CI intervals for H1 and H2

Probability of trusting the 2020 Presidential vote count Logit Model Equation

$$P(\text{Trust Vote Count}) = \frac{1}{1 + e^{-(\beta_0 + \beta_1 \cdot \text{Age} + \beta_2 \cdot \text{Gender} + \beta_3 \cdot \text{Party ID} + \beta_4 \cdot \text{Education Level})}}$$

```
    Min.  1st Qu.   Median     Mean  3rd Qu.     Max.
-1.80042 -1.40528 -0.90227 -0.88253 -0.28912 -0.05518


Call:
glm(formula = trust_vote ~ perception_misinfo + age + profile_educ5 +
```

Table 1: Logit Regression Results Trust in Vote Accuracy by Perception of Misinfo on FB

	(1)
Intercept	−0.344
	(0.237)
	(0.147)
Perception of Misinformation on Facebook	0.296***
	(0.041)
	(<0.001)
Age	0.315***
	(0.045)
	(<0.001)
Education Level	0.416***
	(0.041)
	(<0.001)
Party ID	−1.546***
	(0.048)
	(<0.001)
Gender (1 = Female)	−0.359***
	(0.085)
	(<0.001)
Num.Obs.	3883
AIC	3702.7
BIC	3740.3
Log.Lik.	−1845.367
F	220.378
RMSE	0.39

+ p \num{< 0.1}, * p \num{< 0.05}, ** p \num{< 0.01}, *** p \num{< 0.001}

Table 2: Logit Regression Results Trust in Vote Accuracy by Exposure to Political News on FB

	(1)
Intercept	0.576**
	(0.209)
	(0.006)
Exposure to Political News on Facebook	0.054
	(0.034)
	(0.110)
Age	0.330***
	(0.045)
	(<0.001)
Education Level	0.443***
	(0.041)
	(<0.001)
Party ID	−1.565***
	(0.048)
	(<0.001)
Gender (1 = Female)	−0.390***
	(0.084)
	(<0.001)
Num.Obs.	3883
AIC	3754.3
BIC	3791.9
Log.Lik.	−1871.162
F	218.980
RMSE	0.39

+ p \num{< 0.1}, * p \num{< 0.05}, ** p \num{< 0.01}, *** p \num{< 0.001}

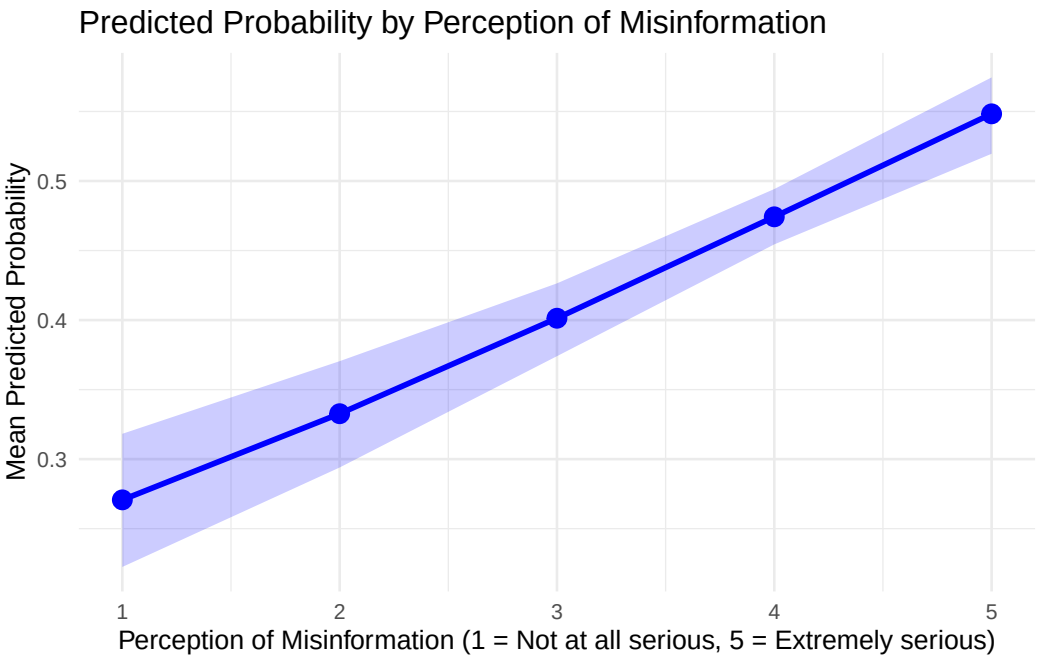
```
    party_id + gender, family = binomial(link = "logit"), data = d)

Coefficients:
                   Estimate Std. Error z value Pr(>|z|)
(Intercept)        -0.34365    0.23675  -1.452    0.147
perception_misinfo  0.29637    0.04074   7.274 3.49e-13 ***
age                 0.31470    0.04509   6.979 2.98e-12 ***
profile_educ5       0.41557    0.04113  10.104  < 2e-16 ***
party_id           -1.54569    0.04840 -31.934  < 2e-16 ***
gender             -0.35936    0.08494  -4.231 2.33e-05 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for binomial family taken to be 1)

    Null deviance: 5378.3  on 3882  degrees of freedom
Residual deviance: 3690.7  on 3877  degrees of freedom
AIC: 3702.7

Number of Fisher Scoring iterations: 4

      (Intercept) perception_misinfo       age profile_educ5  party_id
coefs  -0.3436550          0.2963725 0.3146991     0.4155747 -1.545693
```

```
       -0.3548709          0.2971342 0.3171464     0.4152098 -1.544677

          gender

coefs -0.3593625

      -0.3576462


   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.

 0.1076  0.1696  0.1859  0.1861  0.2021  0.2555


[[1]]

   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.

 0.4601  0.4784  0.4822  0.4823  0.4867  0.5015


[[2]]

   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.

 0.2935  0.3351  0.3482  0.3478  0.3605  0.4110


[[3]]

   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.

 0.5039  0.5281  0.5340  0.5340  0.5399  0.5606


[[4]]

   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.

 0.1076  0.1696  0.1859  0.1861  0.2021  0.2555
```

```
[[5]]
   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
-0.2449 -0.2382 -0.2365 -0.2364 -0.2347 -0.2261
```

	2.5	Mean
Baseline (p_mean)	0.4699849	0.4823337
Perception of Misinfo = 1 not at all	0.3078076	0.3478292
Perception of Misinfo = 5 extremely concerned	0.515618	0.5339749
Effect of x1 Perception of Misinformation (effectx1_mean)	0.1396272	0.1861457
Marginal Effect of x2 Party ID (margeffx2_mean)	-0.2411932	-0.2363917

	97.5
Baseline (p_mean)	0.4943092
Perception of Misinfo = 1 not at all	0.3838175
Perception of Misinfo = 5 extremely concerned	0.5506133
Effect of x1 Perception of Misinformation (effectx1_mean)	0.2338923
Marginal Effect of x2 Party ID (margeffx2_mean)	-0.2309279


Predicted Probability by Perception of Misinformation
Mean Predicted Probability
0.5
0.4
0.3
1
2
3
4
5
Perception of Misinformation (1 = Not at all serious, 5 = Extremely serious)