Multinomial Logistic Regression Results \_ all treatments

==========================================================================================

Accuracy: 0.48491155046826223

Classification Report:

precision recall f1-score support

A 0.45 0.61 0.52 320

B 0.52 0.65 0.58 414

Other 0.33 0.00 0.01 227

accuracy 0.48 961

macro avg 0.43 0.42 0.37 961

weighted avg 0.45 0.48 0.42 961

Intercept:

[ 0.45184296 0.12651061 -0.57835357]

Exponential coefficients:

**Price\_UR\_A Price\_UN\_A** Price\_O\_A **EV\_A** **Price\_UR\_B Price\_UN\_B** \

(A) 0 0.862318 0.953639 0.956702 1.067082 1.038130 1.041525

(B) 1 1.082497 1.076767 1.014274 0.943450 0.918117 0.934189

(Other) 2 1.071287 0.973854 1.030547 0.993307 1.049180 1.027769

**Price\_O\_B** **EV\_B** Revenue\_A\_2.0 Revenue\_A\_3.0 Revenue\_A\_4.0 \

0 1.024830 0.942609 0.935206 0.958863 1.015143

1 0.948229 1.093447 1.010064 0.972885 0.887634

2 1.029045 0.970221 1.058629 1.071969 1.109786

**Revenue\_A\_5.0** Revenue\_B\_2.0 Revenue\_B\_3.0 Revenue\_B\_4.0 **Revenue\_B\_5.0**

0 1.574692 1.004069 1.022521 1.024441 0.738731

1 0.629684 1.017305 1.242633 1.175495 1.692138

2 1.008513 0.979006 0.787019 0.830409 0.799978

predicted\_A predicted\_B predicted\_Other

A 196 123 1

B 144 269 1

Other 97 129 1

The interpretation of the exponentiated coefficients is for a single unit change in the predictor variable, the odds will be multiplied by a factor indicated by the exponent of the beta coefficient, given that all other variables are held constant.

In this analysis with all treatments together, the first variable is **Price\_UR\_A** with a value of 0.86. This means that if Price\_UR\_A   increases by one unit the odds of choosing option A as preferred policy choice is 86% compared to the status when Price\_UR\_A  did not increase by one unit (so it lowers when the price raises).

Whereas the odds of choosing option B is 108% (so it increases when the price of option A raises).

A similar behaviour is observed for variable **Price\_UN\_A** .

On the contrary, if  **EV\_A**  increases by one unit the odds of choosing option A is 107% and of choosing option B is 95% compared to the status when   EV\_A   did not increase (probabilities of choosing an option with increased discount for electric vehicles increase).

A symmetric effect is observed for the variables describing option B: an increase in P**rice\_UR\_B**  and   **Price\_UN\_B**  lead to a decrease in the probabilities of choosing option B (92%, 93%) , while an increase in **EV\_B**  leads to a increase in the probability of choosing B (109%).

Another significative variable (p<0.05) is the categorical variable referring to the **revenue alternative "Investments in public transport, walking and cycling"**. When option A contains this revenue alternative the odds of choosing option A are 153% and of choosing option B are 63%, compared to when this revenue alternative is not there. Symmetrically, when option B contains this revenue alternative the odds of choosing option A are 74% and of choosing option B are 169%, compared to when this revenue alternative is not there.

MNLogit Regression Results \_ all treatments

====================================================================================================

Dep. Variable: policy\_choice No. Observations: 3844

Model: MNLogit Df Residuals: 3812

Method: MLE Df Model: 30

Date: mer, 13 nov 2024 Pseudo R-squ.: 0.04571

Time: 13:32:46 Log-Likelihood: -3944.9

converged: True LL-Null: -4133.9

Covariance Type: nonrobust LLR p-value: 8.014e-62

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policy\_choice=B coef std err z P>|z| [0.025 0.975]

---------------------------------------------------------------------------------------

**Price\_UR\_A 0.2110 0.044 4.830 0.000 0.125 0.297**

**Price\_UN\_A 0.1197 0.042 2.831 0.005 0.037 0.203**

Price\_O\_A 0.0451 0.035 1.304 0.192 -0.023 0.113

**EV\_A -0.1403 0.034 -4.130 0.000 -0.207 -0.074**

**Price\_UR\_B -0.1166 0.044 -2.666 0.008 -0.202 -0.031**

**Price\_UN\_B -0.1253 0.043 -2.944 0.003 -0.209 -0.042**

**Price\_O\_B -0.0724 0.035 -2.093 0.036 -0.140 -0.005**

**EV\_B 0.1331 0.034 3.933 0.000 0.067 0.199**

Revenue\_A\_2.0 -0.0158 0.119 -0.133 0.894 -0.248 0.217

Revenue\_A\_3.0 -0.0232 0.121 -0.191 0.849 -0.261 0.214

Revenue\_A\_4.0 -0.2136 0.123 -1.731 0.084 -0.456 0.028

**Revenue\_A\_5.0 -0.9186 0.126 -7.289 0.000 -1.166 -0.672**

Revenue\_B\_2.0 -0.0461 0.121 -0.381 0.703 -0.283 0.191

Revenue\_B\_3.0 0.1108 0.122 0.911 0.362 -0.128 0.349

Revenue\_B\_4.0 0.0342 0.126 0.272 0.786 -0.213 0.281

**Revenue\_B\_5.0 0.7823 0.127 6.153 0.000 0.533 1.032**

---------------------------------------------------------------------------------------

policy\_choice=Other coef std err z P>|z| [0.025 0.975]

---------------------------------------------------------------------------------------

**Price\_UR\_A 0.1582 0.049 3.237 0.001 0.062 0.254**

Price\_UN\_A 0.0446 0.047 0.940 0.347 -0.048 0.138

Price\_O\_A 0.0293 0.039 0.761 0.447 -0.046 0.105

**EV\_A -0.1787 0.038 -4.711 0.000 -0.253 -0.104**

Price\_UR\_B 0.0195 0.049 0.395 0.693 -0.077 0.116

Price\_UN\_B -0.0367 0.047 -0.788 0.431 -0.128 0.055

Price\_O\_B -0.0447 0.038 -1.168 0.243 -0.120 0.030

EV\_B -0.0538 0.038 -1.418 0.156 -0.128 0.021

Revenue\_A\_2.0 0.0451 0.136 0.331 0.741 -0.222 0.313

Revenue\_A\_3.0 -0.0228 0.136 -0.167 0.867 -0.289 0.244

Revenue\_A\_4.0 -0.0653 0.141 -0.464 0.643 -0.341 0.211

**Revenue\_A\_5.0 -0.6355 0.139 -4.584 0.000 -0.907 -0.364**

Revenue\_B\_2.0 -0.0617 0.126 -0.490 0.624 -0.308 0.185

**Revenue\_B\_3.0 -0.3989 0.136 -2.937 0.003 -0.665 -0.133**

Revenue\_B\_4.0 -0.1935 0.136 -1.421 0.155 -0.460 0.073

Revenue\_B\_5.0 0.0472 0.143 0.331 0.741 -0.232 0.326

===========================================================================================

Multinomial Logistic Regression Results \_ baseline

===========================================================================================

Accuracy: 0.5231788079470199

Classification Report:

precision recall f1-score support

A 0.52 0.60 0.55 55

B 0.56 0.68 0.61 65

Other 0.25 0.06 0.10 31

accuracy 0.52 151

macro avg 0.44 0.45 0.42 151

weighted avg 0.48 0.52 0.49 151

Intercept:

[ 0.55531176 0.75500853 -1.3103203 ]

Exponential coefficients:

Price\_UR\_A Price\_UN\_A Price\_O\_A EV\_A Price\_UR\_B Price\_UN\_B \

0 0.872455 0.870624 0.895125 1.070266 1.051443 1.029465

1 1.046422 1.102738 1.000109 0.901450 0.856582 0.983183

2 1.095343 1.041590 1.117041 1.036494 1.110312 0.987994

Price\_O\_B EV\_B Revenue\_A\_2.0 Revenue\_A\_3.0 Revenue\_A\_4.0 \

0 1.036151 1.035445 0.782693 0.700687 0.982844

1 0.901967 0.989720 1.065974 0.949350 0.994029

2 1.070006 0.975799 1.198566 1.503313 1.023568

Revenue\_A\_5.0 Revenue\_B\_2.0 Revenue\_B\_3.0 Revenue\_B\_4.0 Revenue\_B\_5.0

0 1.569593 1.007017 1.249181 0.911420 0.907134

1 0.670040 1.060873 1.062762 1.576449 1.675480

2 0.950851 0.936051 0.753249 0.695988 0.657945

predicted\_A predicted\_B predicted\_Other

A 33 21 1

B 16 44 5

Other 15 14 2

MNLogit Regression Results \_ Baseline

====================================================================================================

Dep. Variable: policy\_choice No. Observations: 752

Model: MNLogit Df Residuals: 720

Method: MLE Df Model: 30

Date: mer, 13 nov 2024 Pseudo R-squ.: 0.06726

Time: 15:13:24 Log-Likelihood: -747.81

converged: True LL-Null: -801.74

Covariance Type: nonrobust LLR p-value: 1.028e-10

===================================================================================================

policy\_choice=B coef std err z P>|z| [0.025 0.975]

---------------------------------------------------------------------------------------

**Price\_UR\_A 0.1994 0.101 1.979 0.048 0.002 0.397**

**Price\_UN\_A 0.2567 0.099 2.590 0.010 0.062 0.451**

**Price\_O\_A 0.1546 0.078 1.975 0.048 0.001 0.308**

**EV\_A -0.1695 0.079 -2.152 0.031 -0.324 -0.015**

**Price\_UR\_B -0.2475 0.100 -2.476 0.013 -0.443 -0.052**

Price\_UN\_B -0.0195 0.095 -0.206 0.837 -0.205 0.166

Price\_O\_B -0.0899 0.080 -1.130 0.258 -0.246 0.066

EV\_B -0.0189 0.075 -0.251 0.802 -0.166 0.129

Revenue\_A\_2.0 0.1860 0.271 0.687 0.492 -0.345 0.717

Revenue\_A\_3.0 0.2895 0.275 1.053 0.292 -0.249 0.828

Revenue\_A\_4.0 -0.1709 0.280 -0.610 0.542 -0.720 0.378

**Revenue\_A\_5.0 -0.9248 0.284 -3.260 0.001 -1.481 -0.369**

Revenue\_B\_2.0 0.0664 0.285 0.233 0.816 -0.493 0.625

Revenue\_B\_3.0 -0.2486 0.287 -0.866 0.386 -0.811 0.314

Revenue\_B\_4.0 0.4139 0.292 1.416 0.157 -0.159 0.987

**Revenue\_B\_5.0 0.6016 0.301 1.998 0.046 0.011 1.192**

---------------------------------------------------------------------------------------

policy\_choice=Other coef std err z P>|z| [0.025 0.975]

---------------------------------------------------------------------------------------

**Price\_UR\_A 0.2356 0.116 2.025 0.043 0.008 0.464**

Price\_UN\_A 0.0743 0.114 0.651 0.515 -0.149 0.298

Price\_O\_A 0.1145 0.089 1.293 0.196 -0.059 0.288

EV\_A -0.1202 0.089 -1.350 0.177 -0.295 0.054

Price\_UR\_B -0.0420 0.115 -0.365 0.715 -0.268 0.184

Price\_UN\_B -0.0550 0.109 -0.504 0.614 -0.269 0.159

Price\_O\_B -0.0889 0.089 -1.000 0.317 -0.263 0.085

EV\_B -0.1174 0.086 -1.372 0.170 -0.285 0.050

Revenue\_A\_2.0 0.1470 0.324 0.454 0.650 -0.488 0.782

Revenue\_A\_3.0 0.3797 0.309 1.229 0.219 -0.226 0.986

Revenue\_A\_4.0 -0.2924 0.327 -0.895 0.371 -0.932 0.348

**Revenue\_A\_5.0 -0.7462 0.321 -2.327 0.020 -1.375 -0.118**

Revenue\_B\_2.0 -0.1973 0.295 -0.668 0.504 -0.776 0.382

**Revenue\_B\_3.0 -0.7586 0.313 -2.426 0.015 -1.372 -0.146**

Revenue\_B\_4.0 -0.5227 0.325 -1.609 0.108 -1.159 0.114

Revenue\_B\_5.0 -0.4951 0.342 -1.450 0.147 -1.164 0.174

===================================================================================================

Multinomial Logistic Regression Results \_ pollution

==========================================================================================

Accuracy: 0.47297297297297297

Classification Report:

precision recall f1-score support

A 0.50 0.54 0.52 54

B 0.44 0.70 0.54 53

Other 0.67 0.10 0.17 41

accuracy 0.47 148

macro avg 0.54 0.44 0.41 148

weighted avg 0.52 0.47 0.43 148

Intercept:

[ 0.37220601 0.48796353 -0.86016953]

Exponential coefficients:

Price\_UR\_A Price\_UN\_A Price\_O\_A EV\_A Price\_UR\_B Price\_UN\_B \

0 0.923136 0.909059 0.913592 1.139615 0.962341 1.147454

1 1.134777 1.002980 1.020125 0.952103 1.012829 0.753329

2 0.954606 1.096771 1.072987 0.921632 1.025971 1.156858

Price\_O\_B EV\_B Revenue\_A\_2.0 Revenue\_A\_3.0 Revenue\_A\_4.0 \

0 1.058758 0.947148 0.920902 1.037158 0.902177

1 0.882696 1.101671 1.030350 0.819183 0.831542

2 1.070020 0.958363 1.053906 1.176994 1.332981

Revenue\_A\_5.0 Revenue\_B\_2.0 Revenue\_B\_3.0 Revenue\_B\_4.0 Revenue\_B\_5.0

0 1.576965 0.922358 0.864930 0.902642 0.584257

1 0.672163 1.117266 1.301022 1.213189 1.697238

2 0.943416 0.970384 0.888658 0.913179 1.008448

predicted\_A predicted\_B predicted\_Other

A 29 25 0

B 14 37 2

Other 15 22 4

MNLogit Regression Results \_ pollution

==========================================================================================

Dep. Variable: policy\_choice No. Observations: 740

Model: MNLogit Df Residuals: 708

Method: MLE Df Model: 30

Date: Wed, 13 Nov 2024 Pseudo R-squ.: 0.07562

Time: 12:42:15 Log-Likelihood: -734.50

converged: True LL-Null: -794.58

Covariance Type: nonrobust LLR p-value: 9.559e-13

===================================================================================================

policy\_choice=B coef std err z P>|z| [0.025 0.975]

---------------------------------------------------------------------------------------

**Price\_UR\_A 0.2287 0.101 2.256 0.024 0.030 0.427**

Price\_UN\_A 0.1375 0.099 1.389 0.165 -0.057 0.332

Price\_O\_A 0.0945 0.082 1.156 0.248 -0.066 0.255

**EV\_A -0.2106 0.078 -2.704 0.007 -0.363 -0.058**

Price\_UR\_B 0.0489 0.104 0.470 0.638 -0.155 0.253

**Price\_UN\_B -0.4229 0.105 -4.036 0.000 -0.628 -0.218**

Price\_O\_B -0.1381 0.080 -1.718 0.086 -0.296 0.019

EV\_B 0.1125 0.079 1.418 0.156 -0.043 0.268

Revenue\_A\_2.0 0.1912 0.276 0.692 0.489 -0.350 0.733

Revenue\_A\_3.0 -0.2844 0.276 -1.031 0.303 -0.825 0.256

Revenue\_A\_4.0 -0.0473 0.295 -0.160 0.873 -0.626 0.532

**Revenue\_A\_5.0 -0.7924 0.295 -2.690 0.007 -1.370 -0.215**

Revenue\_B\_2.0 0.1045 0.284 0.368 0.713 -0.452 0.661

**Revenue\_B\_3.0 0.5186 0.286 1.814 0.070 -0.042 1.079**

Revenue\_B\_4.0 0.3234 0.287 1.125 0.261 -0.240 0.887

**Revenue\_B\_5.0 1.2383 0.301 4.114 0.000 0.648 1.828**

---------------------------------------------------------------------------------------

policy\_choice=Other coef std err z P>|z| [0.025 0.975]

---------------------------------------------------------------------------------------

Price\_UR\_A 0.0120 0.110 0.110 0.913 -0.203 0.227

Price\_UN\_A 0.1704 0.109 1.565 0.118 -0.043 0.384

Price\_O\_A 0.0598 0.090 0.662 0.508 -0.117 0.237

**EV\_A -0.3416 0.086 -3.966 0.000 -0.510 -0.173**

Price\_UR\_B 0.0811 0.117 0.696 0.486 -0.147 0.310

Price\_UN\_B -0.0685 0.110 -0.622 0.534 -0.284 0.147

Price\_O\_B -0.0536 0.087 -0.614 0.539 -0.225 0.117

EV\_B -0.0433 0.088 -0.492 0.622 -0.216 0.129

Revenue\_A\_2.0 0.2612 0.322 0.811 0.417 -0.370 0.892

Revenue\_A\_3.0 0.0913 0.316 0.289 0.772 -0.528 0.710

Revenue\_A\_4.0 0.4736 0.334 1.419 0.156 -0.180 1.127

Revenue\_A\_5.0 -0.3775 0.333 -1.135 0.257 -1.030 0.275

Revenue\_B\_2.0 -0.3001 0.297 -1.010 0.313 -0.882 0.282

Revenue\_B\_3.0 0.0012 0.303 0.004 0.997 -0.593 0.596

Revenue\_B\_4.0 -0.1592 0.310 -0.513 0.608 -0.767 0.449

Revenue\_B\_5.0 0.4553 0.327 1.394 0.163 -0.185 1.095

===================================================================================================

Multinomial Logistic Regression Results \_ Public services

==========================================================================================

Accuracy: 0.3772455089820359

Classification Report:

precision recall f1-score support

A 0.48 0.41 0.44 68

B 0.31 0.64 0.42 42

Other 0.38 0.14 0.21 57

accuracy 0.38 167

macro avg 0.39 0.40 0.35 167

weighted avg 0.40 0.38 0.36 167

Intercept:

[ 0.31351391 0.01326034 -0.32677425]

Exponential coefficients:

Price\_UR\_A Price\_UN\_A Price\_O\_A EV\_A Price\_UR\_B Price\_UN\_B \

0 0.837781 0.972777 0.993273 0.983009 1.042281 1.036548

1 1.098419 1.069541 1.012043 0.999771 0.882423 0.999788

2 1.086680 0.961146 0.994792 1.017518 1.087273 0.964945

Price\_O\_B EV\_B Revenue\_A\_2.0 Revenue\_A\_3.0 Revenue\_A\_4.0 \

0 1.037179 0.923961 0.872558 0.932642 0.917038

1 0.971465 1.117910 0.836837 1.069080 0.988941

2 0.992474 0.968143 1.369509 1.002940 1.102662

Revenue\_A\_5.0 Revenue\_B\_2.0 Revenue\_B\_3.0 Revenue\_B\_4.0 Revenue\_B\_5.0

0 1.617093 1.216165 1.344481 1.407710 0.893082

1 0.662870 0.808140 0.983843 0.790706 1.307811

2 0.932903 1.017468 0.755996 0.898404 0.856177

predicted\_A predicted\_B predicted\_Other

A 28 33 7

B 9 27 6

Other 21 28 8

MNLogit Regression Results \_ Public services

==========================================================================================

Dep. Variable: policy\_choice No. Observations: 832

Model: MNLogit Df Residuals: 800

Method: MLE Df Model: 30

Date: mer, 13 nov 2024 Pseudo R-squ.: 0.04708

Time: 15:15:49 Log-Likelihood: -867.54

converged: True LL-Null: -910.40

Covariance Type: nonrobust LLR p-value: 2.885e-07

===================================================================================================

policy\_choice=B coef std err z P>|z| [0.025 0.975]

---------------------------------------------------------------------------------------

**Price\_UR\_A 0.2128 0.097 2.185 0.029 0.022 0.404**

Price\_UN\_A 0.1310 0.093 1.405 0.160 -0.052 0.314

Price\_O\_A 0.0026 0.078 0.033 0.973 -0.150 0.155

EV\_A -0.0401 0.076 -0.529 0.597 -0.189 0.109

**Price\_UR\_B -0.2125 0.096 -2.203 0.028 -0.402 -0.023**

Price\_UN\_B 0.0027 0.095 0.029 0.977 -0.184 0.189

Price\_O\_B -0.0750 0.076 -0.981 0.327 -0.225 0.075

**EV\_B 0.1684 0.075 2.244 0.025 0.021 0.315**

Revenue\_A\_2.0 -0.0263 0.278 -0.095 0.924 -0.571 0.518

Revenue\_A\_3.0 0.2043 0.263 0.777 0.437 -0.311 0.719

Revenue\_A\_4.0 -0.0436 0.275 -0.158 0.874 -0.584 0.496

**Revenue\_A\_5.0 -0.9082 0.283 -3.212 0.001 -1.462 -0.354**

Revenue\_B\_2.0 -0.5047 0.276 -1.829 0.067 -1.046 0.036

Revenue\_B\_3.0 -0.2755 0.273 -1.010 0.313 -0.810 0.259

Revenue\_B\_4.0 -0.5272 0.293 -1.799 0.072 -1.102 0.047

Revenue\_B\_5.0 0.3119 0.296 1.055 0.291 -0.268 0.891

---------------------------------------------------------------------------------------

policy\_choice=Other coef std err z P>|z| [0.025 0.975]

---------------------------------------------------------------------------------------

**Price\_UR\_A 0.2059 0.101 2.038 0.042 0.008 0.404**

Price\_UN\_A 0.0056 0.098 0.057 0.955 -0.186 0.198

Price\_O\_A -0.0377 0.081 -0.467 0.640 -0.196 0.120

EV\_A -0.0457 0.079 -0.582 0.560 -0.200 0.108

Price\_UR\_B -0.0426 0.100 -0.425 0.671 -0.239 0.154

Price\_UN\_B 0.0159 0.097 0.164 0.869 -0.174 0.206

Price\_O\_B -0.0282 0.078 -0.361 0.718 -0.182 0.125

EV\_B -0.0054 0.078 -0.069 0.945 -0.158 0.148

Revenue\_A\_2.0 0.3080 0.284 1.085 0.278 -0.249 0.865

Revenue\_A\_3.0 -0.2427 0.283 -0.858 0.391 -0.797 0.312

Revenue\_A\_4.0 -0.0634 0.291 -0.218 0.827 -0.633 0.507

**Revenue\_A\_5.0 -0.5769 0.277 -2.080 0.038 -1.121 -0.033**

Revenue\_B\_2.0 -0.0392 0.272 -0.144 0.886 -0.573 0.495

Revenue\_B\_3.0 -0.5537 0.287 -1.928 0.054 -1.116 0.009

Revenue\_B\_4.0 -0.3223 0.298 -1.080 0.280 -0.907 0.263

Revenue\_B\_5.0 -0.0248 0.314 -0.079 0.937 -0.639 0.590

===================================================================================================

Multinomial Logistic Regression Results \_ Road pricing

==========================================================================================

Accuracy: 0.4370860927152318

Classification Report:

precision recall f1-score support

A 0.46 0.47 0.46 55

B 0.44 0.67 0.53 58

Other 0.20 0.03 0.05 38

accuracy 0.44 151

macro avg 0.36 0.39 0.35 151

weighted avg 0.38 0.44 0.38 151

Intercept:

[-0.49332981 0.56612626 -0.07279645]

Exponential coefficients:

Price\_UR\_A Price\_UN\_A Price\_O\_A EV\_A Price\_UR\_B Price\_UN\_B \

0 0.958414 0.908153 1.014473 1.192311 0.986161 1.048692

1 1.001219 1.119234 1.036142 0.918205 0.877413 0.935889

2 1.042120 0.983830 0.951349 0.913421 1.155708 1.018891

Price\_O\_B EV\_B Revenue\_A\_2.0 Revenue\_A\_3.0 Revenue\_A\_4.0 \

0 1.024840 1.043787 1.018588 1.079923 1.047921

1 0.991432 1.091632 1.135808 0.999375 0.864676

2 0.984195 0.877631 0.864363 0.926571 1.103616

Revenue\_A\_5.0 Revenue\_B\_2.0 Revenue\_B\_3.0 Revenue\_B\_4.0 Revenue\_B\_5.0

0 1.809847 1.111573 1.326756 1.203497 0.769198

1 0.657246 0.853510 1.068942 0.756592 1.333020

2 0.840679 1.054031 0.705107 1.098230 0.975271

predicted\_A predicted\_B predicted\_Other

A 26 27 2

B 17 39 2

Other 14 23 1

MNLogit Regression Results \_ Road pricing

================================================================================================

Dep. Variable: policy\_choice No. Observations: 752

Model: MNLogit Df Residuals: 720

Method: MLE Df Model: 30

Date: mer, 13 nov 2024 Pseudo R-squ.: 0.05093

Time: 15:16:38 Log-Likelihood: -765.40

converged: True LL-Null: -806.47

Covariance Type: nonrobust LLR p-value: 9.673e-07

===================================================================================================

policy\_choice=B coef std err z P>|z| [0.025 0.975]

---------------------------------------------------------------------------------------

**Price\_UR\_A 0.2374 0.101 2.353 0.019 0.040 0.435**

Price\_UN\_A 0.0655 0.096 0.682 0.495 -0.123 0.254

Price\_O\_A 0.0504 0.080 0.631 0.528 -0.106 0.207

**EV\_A -0.1824 0.078 -2.331 0.020 -0.336 -0.029**

Price\_UR\_B -0.0660 0.101 -0.653 0.514 -0.264 0.132

Price\_UN\_B -0.1602 0.095 -1.694 0.090 -0.346 0.025

Price\_O\_B 0.0392 0.079 0.495 0.621 -0.116 0.194

EV\_B 0.0825 0.079 1.038 0.299 -0.073 0.238

Revenue\_A\_2.0 0.1256 0.265 0.474 0.636 -0.394 0.646

Revenue\_A\_3.0 0.0171 0.276 0.062 0.951 -0.525 0.559

Revenue\_A\_4.0 -0.0423 0.280 -0.151 0.880 -0.591 0.506

**Revenue\_A\_5.0 -1.0131 0.284 -3.564 0.000 -1.570 -0.456**

Revenue\_B\_2.0 -0.0301 0.269 -0.112 0.911 -0.558 0.498

Revenue\_B\_3.0 0.0621 0.275 0.225 0.822 -0.478 0.602

Revenue\_B\_4.0 -0.3489 0.278 -1.257 0.209 -0.893 0.195

**Revenue\_B\_5.0 0.5999 0.280 2.139 0.032 0.050 1.149**

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policy\_choice=Other coef std err z P>|z| [0.025 0.975]

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Price\_UR\_A 0.1550 0.115 1.349 0.177 -0.070 0.380

Price\_UN\_A -0.0120 0.110 -0.109 0.913 -0.228 0.204

Price\_O\_A -0.0203 0.092 -0.222 0.825 -0.200 0.159

**EV\_A -0.2530 0.090 -2.799 0.005 -0.430 -0.076**

Price\_UR\_B 0.0905 0.116 0.783 0.434 -0.136 0.317

Price\_UN\_B -0.0837 0.105 -0.798 0.425 -0.289 0.122

Price\_O\_B 0.0463 0.090 0.513 0.608 -0.131 0.223

EV\_B -0.1343 0.092 -1.459 0.145 -0.315 0.046

Revenue\_A\_2.0 0.2127 0.308 0.691 0.490 -0.391 0.816

Revenue\_A\_3.0 -0.0058 0.312 -0.019 0.985 -0.618 0.607

Revenue\_A\_4.0 0.1374 0.334 0.412 0.681 -0.517 0.791

Revenue\_A\_5.0 -0.6012 0.318 -1.889 0.059 -1.225 0.023

Revenue\_B\_2.0 0.1843 0.293 0.629 0.529 -0.390 0.759

Revenue\_B\_3.0 -0.4438 0.338 -1.311 0.190 -1.107 0.220

Revenue\_B\_4.0 0.1138 0.302 0.377 0.706 -0.478 0.706

Revenue\_B\_5.0 0.2697 0.324 0.832 0.405 -0.365 0.905

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Multinomial Logistic Regression Results \_ Social norm

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Accuracy: 0.5194805194805194

Classification Report:

precision recall f1-score support

A 0.48 0.50 0.49 58

B 0.54 0.74 0.63 69

Other 0.00 0.00 0.00 27

accuracy 0.52 154

macro avg 0.34 0.41 0.37 154

weighted avg 0.43 0.52 0.47 154

Intercept:

[ 0.19512362 0.44296781 -0.63809144]

Exponential coefficients:

Price\_UR\_A Price\_UN\_A Price\_O\_A EV\_A Price\_UR\_B Price\_UN\_B \

0 0.866423 0.979997 1.009515 1.090654 1.043076 1.012410

1 1.026255 1.014577 0.922282 0.934871 0.834881 0.986188

2 1.124643 1.005751 1.074048 0.980756 1.148310 1.001576

Price\_O\_B EV\_B Revenue\_A\_2.0 Revenue\_A\_3.0 Revenue\_A\_4.0 \

0 1.006678 0.898423 1.438464 1.177051 1.441470

1 1.025390 1.224482 0.973271 0.829803 0.784696

2 0.968770 0.909007 0.714277 1.023834 0.884083

Revenue\_A\_5.0 Revenue\_B\_2.0 Revenue\_B\_3.0 Revenue\_B\_4.0 Revenue\_B\_5.0

0 1.748033 1.002931 0.896547 0.993958 0.695996

1 0.749514 1.119907 1.353024 1.247570 1.898152

2 0.763257 0.890321 0.824369 0.806431 0.756941

predicted\_A predicted\_B predicted\_Other

A 29 29 0

B 18 51 0

Other 13 14 0

MNLogit Regression Results \_ Social norm

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Dep. Variable: policy\_choice No. Observations: 768

Model: MNLogit Df Residuals: 736

Method: MLE Df Model: 30

Date: mer, 13 nov 2024 Pseudo R-squ.: 0.05942

Time: 15:16:50 Log-Likelihood: -762.03

converged: True LL-Null: -810.18

Covariance Type: nonrobust LLR p-value: 7.105e-09

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policy\_choice=B coef std err z P>|z| [0.025 0.975]

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Price\_UR\_A 0.1505 0.097 1.544 0.123 -0.041 0.342

Price\_UN\_A 0.0524 0.094 0.556 0.578 -0.132 0.237

Price\_O\_A -0.0390 0.077 -0.508 0.612 -0.190 0.112

EV\_A -0.1272 0.076 -1.670 0.095 -0.277 0.022

Price\_UR\_B -0.1034 0.099 -1.047 0.295 -0.297 0.090

Price\_UN\_B -0.0810 0.096 -0.844 0.399 -0.269 0.107

Price\_O\_B -0.0712 0.078 -0.909 0.363 -0.225 0.082

**EV\_B 0.3203 0.077 4.151 0.000 0.169 0.472**

Revenue\_A\_2.0 -0.4489 0.267 -1.683 0.092 -0.972 0.074

Revenue\_A\_3.0 -0.3236 0.286 -1.130 0.259 -0.885 0.238

**Revenue\_A\_4.0 -0.6460 0.274 -2.358 0.018 -1.183 -0.109**

**Revenue\_A\_5.0 -0.8880 0.288 -3.083 0.002 -1.452 -0.324**

Revenue\_B\_2.0 0.1477 0.262 0.565 0.572 -0.365 0.660

Revenue\_B\_3.0 0.4681 0.268 1.747 0.081 -0.057 0.993

Revenue\_B\_4.0 0.2846 0.288 0.989 0.323 -0.279 0.848

**Revenue\_B\_5.0 1.1278 0.272 4.142 0.000 0.594 1.662**

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policy\_choice=Other coef std err z P>|z| [0.025 0.975]

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Price\_UR\_A 0.1813 0.116 1.563 0.118 -0.046 0.409

Price\_UN\_A 0.0166 0.110 0.151 0.880 -0.198 0.232

Price\_O\_A 0.0646 0.090 0.721 0.471 -0.111 0.240

EV\_A -0.1638 0.090 -1.826 0.068 -0.340 0.012

Price\_UR\_B 0.0633 0.118 0.538 0.590 -0.167 0.294

Price\_UN\_B -0.0190 0.111 -0.170 0.865 -0.237 0.200

Price\_O\_B -0.1063 0.093 -1.146 0.252 -0.288 0.076

EV\_B -0.0024 0.091 -0.026 0.979 -0.180 0.176

**Revenue\_A\_2.0 -0.7070 0.332 -2.130 0.033 -1.358 -0.056**

Revenue\_A\_3.0 -0.2717 0.329 -0.826 0.409 -0.916 0.373

Revenue\_A\_4.0 -0.4891 0.321 -1.524 0.128 -1.118 0.140

**Revenue\_A\_5.0 -0.8409 0.337 -2.499 0.012 -1.500 -0.181**

Revenue\_B\_2.0 -0.2303 0.283 -0.814 0.416 -0.785 0.324

Revenue\_B\_3.0 -0.4419 0.319 -1.384 0.166 -1.068 0.184

Revenue\_B\_4.0 -0.2778 0.325 -0.855 0.393 -0.915 0.359

Revenue\_B\_5.0 -0.0778 0.326 -0.239 0.811 -0.716 0.560

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