MNLogit Regression Results

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Dep. Variable: tag\_level No. Observations: 14901

Model: MNLogit Df Residuals: 14713

Method: MLE Df Model: 187

Date: Thu, 28 Apr 2022 Pseudo R-squ.: 0.07605

Time: 12:58:10 Log-Likelihood: -9533.8

converged: True LL-Null: -10318.

LLR p-value: 8.745e-217

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tag\_level=1 coef std err z P |z| [0.025 0.975]

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const -1.8600 0.219 -8.495 0.000 -2.289 -1.431

MIN 1.3308 0.039 34.231 0.000 1.255 1.407

Age\_BMI -0.0673 0.019 -3.629 0.000 -0.104 -0.031

Birth\_year -0.0528 0.019 -2.735 0.006 -0.091 -0.015

dapar\_3gr 0.0005 0.018 0.027 0.979 -0.035 0.036

Educ\_GE11YN -0.0097 0.018 -0.552 0.581 -0.044 0.025

Eshkol\_3gr -0.0184 0.018 -1.035 0.300 -0.053 0.016

Israeli 0.1780 0.061 2.919 0.004 0.058 0.298

DQB1\*03:01 0.0066 0.080 0.083 0.934 -0.150 0.164

DQB1\*02:01 -0.0085 0.105 -0.081 0.936 -0.215 0.198

C\*04:01 0.0982 0.091 1.075 0.282 -0.081 0.277

DRB1\*11:04 0.1056 0.096 1.099 0.272 -0.083 0.294

DRB1\*07:01 0.0579 0.118 0.491 0.623 -0.173 0.289

A\*01:01 -0.0553 0.076 -0.730 0.465 -0.204 0.093

C\*12:03 0.1185 0.102 1.159 0.247 -0.082 0.319

DQB1\*03:02 -0.0138 0.112 -0.124 0.902 -0.233 0.205

A\*02:01 -0.1924 0.076 -2.543 0.011 -0.341 -0.044

C\*07:01 0.2093 0.094 2.222 0.026 0.025 0.394

C\*06:02 0.2421 0.108 2.233 0.026 0.030 0.455

DQB1\*05:01 -0.1524 0.164 -0.931 0.352 -0.473 0.168

A\*24:02 -0.0516 0.076 -0.677 0.499 -0.201 0.098

B\*38:01 0.0561 0.125 0.450 0.653 -0.188 0.300

A\*26:01 -0.1685 0.083 -2.039 0.041 -0.331 -0.007

DRB1\*04:02 0.0259 0.130 0.199 0.842 -0.228 0.280

DRB1\*03:01 0.0635 0.123 0.516 0.606 -0.178 0.305

C\*08:02 0.0380 0.404 0.094 0.925 -0.753 0.829

B\*14:02 0.0280 0.407 0.069 0.945 -0.769 0.825

DRB1\*13:02 -0.2409 0.219 -1.101 0.271 -0.669 0.188

DRB1\*01:02 0.1635 0.180 0.908 0.364 -0.189 0.516

B\*18:01 -0.1755 0.114 -1.539 0.124 -0.399 0.048

C\*12:02 0.1149 0.163 0.705 0.481 -0.204 0.434

A\*03:02 -0.0456 0.084 -0.541 0.589 -0.211 0.120

A\*11:01 -0.1195 0.085 -1.406 0.160 -0.286 0.047

B\*35:08 -0.0980 0.118 -0.833 0.405 -0.328 0.132

B\*52:01 -0.1427 0.186 -0.766 0.444 -0.508 0.223

DRB1\*11:01 0.1756 0.099 1.766 0.077 -0.019 0.371

A\*03:01 -0.0408 0.087 -0.470 0.638 -0.211 0.129

B\*44:03 -0.0062 0.115 -0.053 0.957 -0.232 0.220

C\*17:01 0.3365 0.177 1.896 0.058 -0.011 0.684

B\*35:02 -0.0230 0.120 -0.191 0.848 -0.259 0.213

DQB1\*06:03 -0.0417 0.124 -0.336 0.737 -0.285 0.202

B\*13:02 -0.2753 0.136 -2.022 0.043 -0.542 -0.008

C\*07:02 0.1845 0.124 1.491 0.136 -0.058 0.427

B\*35:01 -0.0605 0.119 -0.507 0.612 -0.294 0.173

DQB1\*06:01 0.2870 0.268 1.073 0.283 -0.237 0.811

DQB1\*06:04 0.2526 0.222 1.135 0.256 -0.183 0.689

DRB1\*15:02 -0.0896 0.278 -0.322 0.747 -0.635 0.456

DQB1\*05:03 0.2675 0.231 1.157 0.247 -0.185 0.720

B\*08:01 -0.1487 0.131 -1.132 0.258 -0.406 0.109

DRB1\*04:03 0.0285 0.135 0.211 0.833 -0.237 0.294

A\*32:01 0.0197 0.091 0.216 0.829 -0.159 0.199

DRB1\*14:01 -0.1400 0.233 -0.601 0.548 -0.597 0.316

B\*51:01 0.0276 0.141 0.196 0.844 -0.248 0.303

B\*41:01 -0.1604 0.179 -0.895 0.371 -0.512 0.191

DRB1\*15:01 0.2560 0.219 1.167 0.243 -0.174 0.686

A\*23:01 -0.1605 0.097 -1.656 0.098 -0.350 0.029

DRB1\*13:01 0.0433 0.151 0.288 0.774 -0.252 0.339

C\*02:02 -0.1146 0.147 -0.778 0.437 -0.403 0.174

B\*49:01 -0.0167 0.131 -0.128 0.898 -0.273 0.239

DQB1\*06:02 -0.3626 0.225 -1.611 0.107 -0.804 0.079

B\*44:02 -0.0459 0.143 -0.320 0.749 -0.327 0.235

DRB1\*10:01 0.1583 0.178 0.889 0.374 -0.191 0.507

A\*30:01 -0.0034 0.101 -0.034 0.973 -0.201 0.195

B\*50:01 -0.0470 0.142 -0.331 0.740 -0.325 0.231

A\*33:01 -0.1739 0.103 -1.686 0.092 -0.376 0.028

A\*29:01 -0.1476 0.102 -1.443 0.149 -0.348 0.053

B\*07:02 -0.2051 0.150 -1.367 0.172 -0.499 0.089

A\*68:02 -0.0728 0.104 -0.700 0.484 -0.277 0.131

A\*02:05 -0.2064 0.105 -1.960 0.050 -0.413 1.19e-05

B\*57:01 -0.1978 0.145 -1.359 0.174 -0.483 0.087

A\*02:02 -0.1077 0.116 -0.926 0.355 -0.336 0.120

DQB1\*05:02 -0.0630 0.253 -0.249 0.803 -0.559 0.433

C\*15:02 0.0509 0.143 0.355 0.723 -0.230 0.332

DRB1\*13:03 -0.1513 0.124 -1.219 0.223 -0.395 0.092

C\*05:01 0.1679 0.126 1.332 0.183 -0.079 0.415

C\*15:05 0.6233 0.315 1.980 0.048 0.006 1.240

A\*30:02 -0.0582 0.118 -0.493 0.622 -0.290 0.173

C\*01:02 0.0134 0.167 0.080 0.936 -0.314 0.341

B\*07:05 -0.4554 0.316 -1.442 0.149 -1.074 0.164

B\*55:01 0.1419 0.186 0.761 0.447 -0.224 0.507

DQB1\*04:02 0.1165 0.193 0.603 0.547 -0.262 0.495

B\*15:17 -0.1952 0.150 -1.298 0.194 -0.490 0.100

B\*58:01 -0.2192 0.149 -1.473 0.141 -0.511 0.072

C\*16:04 0.1792 0.137 1.310 0.190 -0.089 0.447

DRB1\*12:01 0.0472 0.123 0.384 0.701 -0.194 0.288

DRB1\*16:01 -0.0535 0.271 -0.197 0.844 -0.585 0.478

DRB1\*13:05 -0.0092 0.132 -0.069 0.945 -0.268 0.250

A\*68:01 -0.1894 0.122 -1.559 0.119 -0.428 0.049

B\*41:02 -0.1860 0.212 -0.878 0.380 -0.601 0.229

B\*53:01 -0.4786 0.153 -3.126 0.002 -0.779 -0.179

DQB1\*02:02 -0.0994 0.137 -0.727 0.468 -0.367 0.169

C\*03:04 -0.0581 0.197 -0.295 0.768 -0.444 0.328

DQB1\*06:09 0.3386 0.226 1.495 0.135 -0.105 0.782

DRB1\*04:04 0.1675 0.165 1.017 0.309 -0.155 0.490

DRB1\*04:05 0.1973 0.153 1.291 0.197 -0.102 0.497

A\*25:01 -0.1362 0.119 -1.145 0.252 -0.369 0.097

C\*03:03 0.1073 0.175 0.615 0.539 -0.235 0.450

DRB1\*01:01 0.2744 0.197 1.391 0.164 -0.112 0.661

DQB1\*03:03 -0.0968 0.149 -0.651 0.515 -0.388 0.195

B\*35:03 -0.2537 0.153 -1.654 0.098 -0.554 0.047

A\*66:01 -0.1106 0.132 -0.841 0.400 -0.369 0.147

DQB1\*03:05 -0.0553 0.149 -0.370 0.711 -0.348 0.237

A\*69:01 -0.3531 0.140 -2.525 0.012 -0.627 -0.079

B\*40:01 0.0407 0.216 0.188 0.851 -0.383 0.464

C\*16:01 0.2552 0.152 1.674 0.094 -0.044 0.554

C\*16:02 0.1517 0.213 0.712 0.476 -0.266 0.569

A\*31:01 -0.2482 0.133 -1.873 0.061 -0.508 0.012

A\*29:02 -0.1342 0.143 -0.940 0.347 -0.414 0.145

C\*14:02 -0.0037 0.190 -0.020 0.984 -0.375 0.368

B\*15:01 -0.1129 0.176 -0.643 0.520 -0.457 0.231

B\*51:08 -0.0105 0.244 -0.043 0.966 -0.489 0.468

C\*03:02 0.4216 0.193 2.181 0.029 0.043 0.801

B\*27:02 0.1273 0.195 0.653 0.514 -0.255 0.509

A\*24:03 -0.0397 0.147 -0.271 0.787 -0.327 0.248

DRB1\*04:01 0.1119 0.161 0.694 0.488 -0.204 0.428

C\*07:04 -0.0987 0.190 -0.519 0.604 -0.472 0.274

B\*37:01 -0.2946 0.187 -1.578 0.115 -0.661 0.071

DRB1\*08:01 -0.1640 0.252 -0.652 0.514 -0.657 0.329

A\*02:17 -0.1210 0.180 -0.673 0.501 -0.474 0.231

B\*15:03 -0.1356 0.231 -0.587 0.557 -0.588 0.317

A\*01:03 -0.3876 0.216 -1.791 0.073 -0.812 0.036

B\*27:05 0.1551 0.222 0.700 0.484 -0.279 0.589

B\*40:02 0.0727 0.214 0.339 0.735 -0.347 0.493

A\*33:03 -0.1424 0.181 -0.788 0.431 -0.497 0.212

A\*30:04 -0.3786 0.207 -1.832 0.067 -0.784 0.026

DRB1\*14:04 -0.0201 0.319 -0.063 0.950 -0.645 0.605

DRB1\*04:06 -0.4050 0.333 -1.215 0.224 -1.058 0.248

B\*39:01 -0.0104 0.198 -0.053 0.958 -0.399 0.378

DQB1\*03:04 0.2011 0.263 0.766 0.444 -0.314 0.716

DRB1\*08:04 0.1151 0.295 0.391 0.696 -0.462 0.692

A\*31:08 -0.2439 0.188 -1.294 0.196 -0.613 0.125

DRB1\*11:03 -0.1269 0.205 -0.618 0.537 -0.530 0.276

A\*24:07 -0.1296 0.274 -0.473 0.636 -0.667 0.408

DRB1\*09:01 -0.0617 0.259 -0.239 0.811 -0.569 0.445

B\*50:02 0.4043 0.327 1.235 0.217 -0.237 1.046

A\*24:17 0.0403 0.235 0.171 0.864 -0.421 0.501

B\*45:01 -0.2659 0.261 -1.018 0.309 -0.778 0.246

B\*56:01 -0.0112 0.283 -0.039 0.969 -0.566 0.544

C\*15:04 0.1553 0.259 0.599 0.549 -0.353 0.663

DRB1\*15:03 0.0214 0.999 0.021 0.983 -1.937 1.979

B\*44:05 0.1797 0.258 0.695 0.487 -0.327 0.686

B\*51:06 0.0326 0.254 0.128 0.898 -0.465 0.530

DRB1\*16:02 0.1631 0.350 0.466 0.641 -0.523 0.849

DRB1\*01:03 -0.3369 0.252 -1.338 0.181 -0.831 0.157

C\*04:07 0.0072 0.322 0.023 0.982 -0.624 0.638

A\*24:04 -0.0207 0.235 -0.088 0.930 -0.482 0.440

B\*73:01 -0.6071 0.432 -1.407 0.159 -1.453 0.239

DRB1\*04:08 0.0152 0.343 0.044 0.965 -0.656 0.687

B\*39:06 -0.1891 0.316 -0.599 0.549 -0.808 0.430

B\*27:07 -0.0897 0.255 -0.352 0.725 -0.589 0.410

B\*48:01 -1.9373 1.373 -1.410 0.158 -4.629 0.755

B\*40:06 0.0613 0.306 0.200 0.841 -0.539 0.662

B\*57:03 0.4962 0.306 1.622 0.105 -0.103 1.096

C\*14:03 0.3475 0.315 1.103 0.270 -0.270 0.965

B\*14:01 -0.0256 0.490 -0.052 0.958 -0.986 0.935

C\*08:03 2.0740 1.442 1.439 0.150 -0.752 4.900

B\*57:02 0.0362 1.519 0.024 0.981 -2.942 3.014

C\*18:01 0.1895 1.101 0.172 0.863 -1.968 2.347

DRB1\*04:07 -0.0092 0.293 -0.031 0.975 -0.584 0.565

DRB1\*12:02 0.1038 0.431 0.241 0.810 -0.741 0.949

B\*47:01 0.2638 0.376 0.701 0.483 -0.474 1.001

A\*02:06 0.0657 0.411 0.160 0.873 -0.739 0.871

DRB1\*08:03 0.9240 0.372 2.484 0.013 0.195 1.653

B\*51:07 0.0177 0.392 0.045 0.964 -0.750 0.786

A\*74:01 -0.1629 0.523 -0.312 0.755 -1.188 0.862

DRB1\*11:02 -0.3975 0.407 -0.977 0.328 -1.195 0.400

A\*34:02 0.3057 0.442 0.692 0.489 -0.560 1.171

C\*08:01 0.4819 0.844 0.571 0.568 -1.171 2.135

C\*02:10 0.2389 0.362 0.660 0.509 -0.470 0.948

DRB1\*14:06 0.3116 0.461 0.676 0.499 -0.592 1.216

B\*42:01 -0.0759 0.467 -0.163 0.871 -0.992 0.840

B\*13:01 -0.5550 0.621 -0.894 0.371 -1.772 0.662

DQB1\*04:01 -0.4736 0.589 -0.805 0.421 -1.627 0.680

B\*15:16 0.4224 0.472 0.895 0.371 -0.503 1.348

B\*15:10 0.5297 0.573 0.925 0.355 -0.593 1.652

B\*39:10 -1.0033 0.879 -1.141 0.254 -2.726 0.719

A\*02:03 0.6672 1.349 0.495 0.621 -1.977 3.311

A\*80:01 0.5543 0.484 1.145 0.252 -0.395 1.503

C\*04:03 0.6915 0.757 0.914 0.361 -0.792 2.175

B\*37:02 -0.8112 0.522 -1.553 0.120 -1.835 0.212

B\*15:18 0.6856 0.489 1.403 0.161 -0.272 1.644

B\*38:02 -0.0350 0.666 -0.053 0.958 -1.341 1.271

B\*15:24 1.3967 0.844 1.655 0.098 -0.257 3.050

B\*27:12 -0.4194 0.653 -0.642 0.521 -1.700 0.861

A\*74:03 -0.2547 1.441 -0.177 0.860 -3.079 2.570

DRB1\*08:02 2.0646 1.104 1.871 0.061 -0.098 4.228

B\*15:29 1.1829 0.921 1.284 0.199 -0.622 2.988

B\*48:04 -0.4541 1.115 -0.407 0.684 -2.639 1.731

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