MNLogit Regression Results

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Dep. Variable: tag\_level No. Observations: 9357

Model: MNLogit Df Residuals: 9169

Method: MLE Df Model: 187

Date: Thu, 28 Apr 2022 Pseudo R-squ.: 0.09697

Time: 12:54:40 Log-Likelihood: -5842.0

converged: True LL-Null: -6469.3

LLR p-value: 2.051e-157

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

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const -2.2248 0.277 -8.044 0.000 -2.767 -1.683

MIN 1.5446 0.051 30.088 0.000 1.444 1.645

Age\_BMI -0.0128 0.024 -0.542 0.588 -0.059 0.033

Birth\_year -0.0535 0.024 -2.249 0.025 -0.100 -0.007

dapar\_3gr 0.0180 0.023 0.774 0.439 -0.028 0.064

Educ\_GE11YN -0.0230 0.023 -1.016 0.309 -0.067 0.021

Eshkol\_3gr -0.0556 0.023 -2.445 0.014 -0.100 -0.011

Israeli 0.2476 0.080 3.081 0.002 0.090 0.405

DQB1\*03:01 -0.0743 0.103 -0.720 0.472 -0.277 0.128

DQB1\*02:01 0.1301 0.127 1.027 0.305 -0.118 0.379

C\*04:01 0.0563 0.117 0.482 0.630 -0.172 0.285

DRB1\*11:04 0.3000 0.123 2.443 0.015 0.059 0.541

DRB1\*07:01 0.1025 0.144 0.714 0.475 -0.179 0.384

A\*01:01 -0.1700 0.096 -1.772 0.076 -0.358 0.018

C\*12:03 0.0224 0.133 0.168 0.867 -0.239 0.284

DQB1\*03:02 0.0828 0.134 0.618 0.537 -0.180 0.346

A\*02:01 -0.0795 0.098 -0.811 0.418 -0.272 0.113

C\*07:01 0.0191 0.121 0.157 0.875 -0.219 0.257

C\*06:02 0.1014 0.134 0.757 0.449 -0.161 0.364

DQB1\*05:01 -0.1943 0.194 -1.002 0.317 -0.574 0.186

A\*24:02 -0.1566 0.098 -1.604 0.109 -0.348 0.035

B\*38:01 0.0249 0.159 0.156 0.876 -0.287 0.337

A\*26:01 -0.1907 0.109 -1.757 0.079 -0.403 0.022

DRB1\*04:02 0.0985 0.159 0.620 0.535 -0.213 0.410

DRB1\*03:01 0.0137 0.148 0.093 0.926 -0.276 0.304

C\*08:02 -1.3099 0.609 -2.149 0.032 -2.504 -0.115

B\*14:02 1.3403 0.612 2.190 0.029 0.141 2.540

DRB1\*13:02 -0.0043 0.239 -0.018 0.986 -0.473 0.464

DRB1\*01:02 0.3991 0.218 1.834 0.067 -0.027 0.826

B\*18:01 -0.1849 0.145 -1.277 0.202 -0.469 0.099

C\*12:02 0.0557 0.213 0.261 0.794 -0.363 0.474

A\*03:02 -0.0590 0.108 -0.548 0.584 -0.270 0.152

A\*11:01 -0.0983 0.107 -0.918 0.359 -0.308 0.112

B\*35:08 -0.2242 0.148 -1.515 0.130 -0.514 0.066

B\*52:01 -0.0152 0.234 -0.065 0.948 -0.473 0.443

DRB1\*11:01 0.3551 0.128 2.770 0.006 0.104 0.606

A\*03:01 0.0328 0.109 0.302 0.763 -0.180 0.246

B\*44:03 -0.2353 0.144 -1.638 0.101 -0.517 0.046

C\*17:01 0.2945 0.241 1.221 0.222 -0.178 0.767

B\*35:02 -0.0664 0.151 -0.439 0.660 -0.362 0.230

DQB1\*06:03 0.1785 0.167 1.069 0.285 -0.149 0.506

B\*13:02 -0.1796 0.164 -1.093 0.274 -0.502 0.142

C\*07:02 -0.1183 0.148 -0.799 0.424 -0.409 0.172

B\*35:01 -0.1467 0.150 -0.978 0.328 -0.441 0.147

DQB1\*06:01 -0.3140 0.308 -1.018 0.309 -0.918 0.290

DQB1\*06:04 0.2169 0.242 0.895 0.371 -0.258 0.692

DRB1\*15:02 0.4148 0.320 1.296 0.195 -0.212 1.042

DQB1\*05:03 -0.0996 0.271 -0.368 0.713 -0.630 0.431

B\*08:01 0.0859 0.163 0.526 0.599 -0.234 0.406

DRB1\*04:03 0.1089 0.166 0.655 0.512 -0.217 0.435

A\*32:01 -0.0945 0.116 -0.814 0.416 -0.322 0.133

DRB1\*14:01 0.2992 0.278 1.075 0.282 -0.246 0.845

B\*51:01 -0.1526 0.170 -0.896 0.370 -0.487 0.181

B\*41:01 -0.3408 0.244 -1.398 0.162 -0.819 0.137

DRB1\*15:01 0.2375 0.275 0.864 0.388 -0.301 0.776

A\*23:01 -0.1883 0.122 -1.545 0.122 -0.427 0.050

DRB1\*13:01 -0.2564 0.199 -1.289 0.198 -0.646 0.134

C\*02:02 0.1178 0.165 0.713 0.476 -0.206 0.442

B\*49:01 0.1266 0.161 0.786 0.432 -0.189 0.442

DQB1\*06:02 -0.0303 0.280 -0.108 0.914 -0.578 0.518

B\*44:02 0.1393 0.180 0.773 0.439 -0.214 0.492

DRB1\*10:01 0.4861 0.216 2.253 0.024 0.063 0.909

A\*30:01 0.0371 0.125 0.297 0.766 -0.207 0.281

B\*50:01 -0.1935 0.175 -1.108 0.268 -0.536 0.149

A\*33:01 -0.1883 0.132 -1.425 0.154 -0.447 0.071

A\*29:01 0.1110 0.135 0.824 0.410 -0.153 0.375

B\*07:02 0.0433 0.180 0.240 0.810 -0.310 0.396

A\*68:02 0.0272 0.135 0.202 0.840 -0.236 0.291

A\*02:05 -0.0211 0.141 -0.150 0.880 -0.297 0.255

B\*57:01 0.0233 0.179 0.130 0.896 -0.328 0.374

A\*02:02 -0.0765 0.138 -0.554 0.580 -0.347 0.194

DQB1\*05:02 0.1380 0.292 0.473 0.637 -0.434 0.710

C\*15:02 0.0430 0.177 0.243 0.808 -0.304 0.390

DRB1\*13:03 0.0740 0.155 0.476 0.634 -0.231 0.378

C\*05:01 0.0303 0.168 0.181 0.857 -0.298 0.359

C\*15:05 0.2230 0.356 0.627 0.530 -0.474 0.920

A\*30:02 0.1153 0.141 0.817 0.414 -0.161 0.392

C\*01:02 -0.0419 0.195 -0.215 0.830 -0.424 0.340

B\*07:05 -0.3688 0.358 -1.029 0.303 -1.071 0.334

B\*55:01 0.1901 0.218 0.871 0.384 -0.238 0.618

DQB1\*04:02 0.2357 0.238 0.989 0.323 -0.232 0.703

B\*15:17 -0.1098 0.180 -0.609 0.542 -0.463 0.243

B\*58:01 -0.1202 0.203 -0.593 0.553 -0.517 0.277

C\*16:04 0.2262 0.174 1.303 0.193 -0.114 0.566

DRB1\*12:01 0.0378 0.164 0.231 0.818 -0.283 0.358

DRB1\*16:01 0.0613 0.307 0.200 0.842 -0.541 0.663

DRB1\*13:05 0.1213 0.173 0.702 0.483 -0.217 0.460

A\*68:01 -0.2936 0.155 -1.892 0.058 -0.598 0.010

B\*41:02 -0.2003 0.276 -0.726 0.468 -0.741 0.340

B\*53:01 -0.2268 0.178 -1.274 0.203 -0.576 0.122

DQB1\*02:02 0.0881 0.173 0.510 0.610 -0.251 0.427

C\*03:04 -0.1013 0.233 -0.435 0.664 -0.558 0.355

DQB1\*06:09 0.4874 0.265 1.836 0.066 -0.033 1.008

DRB1\*04:04 -0.1798 0.201 -0.893 0.372 -0.575 0.215

DRB1\*04:05 0.2247 0.179 1.253 0.210 -0.127 0.576

A\*25:01 -0.1512 0.165 -0.915 0.360 -0.475 0.173

C\*03:03 0.0112 0.205 0.055 0.957 -0.391 0.414

DRB1\*01:01 0.3262 0.239 1.366 0.172 -0.142 0.794

DQB1\*03:03 -0.1063 0.196 -0.542 0.588 -0.491 0.278

B\*35:03 -0.0427 0.193 -0.221 0.825 -0.422 0.336

A\*66:01 -0.2698 0.182 -1.485 0.138 -0.626 0.086

DQB1\*03:05 -0.0851 0.206 -0.413 0.679 -0.489 0.319

A\*69:01 -0.5348 0.184 -2.903 0.004 -0.896 -0.174

B\*40:01 -0.0061 0.257 -0.024 0.981 -0.510 0.498

C\*16:01 0.4137 0.190 2.173 0.030 0.041 0.787

C\*16:02 0.2497 0.261 0.957 0.338 -0.261 0.761

A\*31:01 0.0890 0.182 0.490 0.624 -0.267 0.445

A\*29:02 -0.4389 0.180 -2.441 0.015 -0.791 -0.086

C\*14:02 -0.0239 0.231 -0.104 0.918 -0.476 0.429

B\*15:01 0.2319 0.217 1.069 0.285 -0.193 0.657

B\*51:08 -0.4273 0.298 -1.433 0.152 -1.012 0.157

C\*03:02 -0.1623 0.253 -0.642 0.521 -0.658 0.334

B\*27:02 0.1142 0.240 0.476 0.634 -0.356 0.584

A\*24:03 -0.0735 0.201 -0.366 0.714 -0.467 0.320

DRB1\*04:01 -0.2114 0.217 -0.976 0.329 -0.636 0.213

C\*07:04 -0.1312 0.247 -0.531 0.596 -0.616 0.353

B\*37:01 -0.2135 0.233 -0.917 0.359 -0.670 0.243

DRB1\*08:01 -0.0311 0.322 -0.096 0.923 -0.663 0.601

A\*02:17 0.1144 0.213 0.537 0.591 -0.303 0.532

B\*15:03 -0.2182 0.266 -0.821 0.412 -0.739 0.303

A\*01:03 -0.3883 0.224 -1.732 0.083 -0.828 0.051

B\*27:05 0.0188 0.262 0.072 0.943 -0.495 0.533

B\*40:02 0.1131 0.259 0.436 0.663 -0.395 0.622

A\*33:03 0.0399 0.245 0.163 0.871 -0.441 0.520

A\*30:04 -0.2458 0.252 -0.975 0.330 -0.740 0.248

DRB1\*14:04 -0.0205 0.335 -0.061 0.951 -0.677 0.636

DRB1\*04:06 -0.4591 0.396 -1.158 0.247 -1.236 0.318

B\*39:01 -0.1602 0.286 -0.560 0.575 -0.720 0.400

DQB1\*03:04 0.1734 0.337 0.515 0.606 -0.486 0.833

DRB1\*08:04 -0.0977 0.297 -0.329 0.742 -0.679 0.484

A\*31:08 0.0849 0.237 0.359 0.720 -0.379 0.549

DRB1\*11:03 0.3519 0.272 1.295 0.195 -0.181 0.885

A\*24:07 -0.2176 0.273 -0.796 0.426 -0.753 0.318

DRB1\*09:01 0.6460 0.312 2.073 0.038 0.035 1.257

B\*50:02 0.0485 0.354 0.137 0.891 -0.646 0.743

A\*24:17 -0.1197 0.300 -0.399 0.690 -0.707 0.468

B\*45:01 -0.0035 0.314 -0.011 0.991 -0.620 0.613

B\*56:01 0.2363 0.362 0.653 0.514 -0.473 0.946

C\*15:04 0.6926 0.333 2.079 0.038 0.040 1.346

DRB1\*15:03 0.3310 0.643 0.515 0.607 -0.930 1.592

B\*44:05 0.3229 0.367 0.879 0.379 -0.397 1.043

B\*51:06 -0.2995 0.316 -0.949 0.343 -0.918 0.319

DRB1\*16:02 -0.3419 0.401 -0.853 0.394 -1.127 0.444

DRB1\*01:03 0.5621 0.324 1.733 0.083 -0.074 1.198

C\*04:07 -0.7370 0.424 -1.739 0.082 -1.567 0.093

A\*24:04 -0.4061 0.407 -0.998 0.318 -1.203 0.391

B\*73:01 -0.3888 0.493 -0.788 0.430 -1.355 0.578

DRB1\*04:08 0.1182 0.430 0.275 0.784 -0.725 0.962

B\*39:06 0.3684 0.428 0.862 0.389 -0.470 1.206

B\*27:07 0.8286 0.423 1.958 0.050 -0.001 1.658

B\*48:01 1.4169 1.850 0.766 0.444 -2.210 5.043

B\*40:06 0.4603 0.445 1.034 0.301 -0.412 1.333

B\*57:03 -0.1535 0.398 -0.385 0.700 -0.934 0.627

C\*14:03 0.6031 0.345 1.748 0.081 -0.073 1.279

B\*14:01 1.2563 0.696 1.806 0.071 -0.107 2.620

C\*08:03 -3.4651 2.127 -1.629 0.103 -7.634 0.703

B\*57:02 -1.4546 1.174 -1.239 0.215 -3.756 0.847

C\*18:01 0.7434 0.973 0.764 0.445 -1.164 2.651

DRB1\*04:07 0.0673 0.404 0.166 0.868 -0.725 0.859

DRB1\*12:02 -0.9938 0.648 -1.534 0.125 -2.263 0.276

B\*47:01 0.0354 0.399 0.089 0.929 -0.746 0.817

A\*02:06 1.1433 0.737 1.552 0.121 -0.301 2.587

DRB1\*08:03 -0.6608 0.533 -1.239 0.215 -1.706 0.385

B\*51:07 0.3513 0.466 0.755 0.450 -0.561 1.264

A\*74:01 0.1156 0.481 0.240 0.810 -0.827 1.058

DRB1\*11:02 0.1032 0.440 0.235 0.814 -0.759 0.965

A\*34:02 -0.6484 0.523 -1.240 0.215 -1.673 0.376

C\*08:01 -2.4894 1.567 -1.589 0.112 -5.560 0.581

C\*02:10 0.1291 0.428 0.302 0.763 -0.709 0.967

DRB1\*14:06 0.0433 0.487 0.089 0.929 -0.911 0.998

B\*42:01 -0.3372 0.541 -0.623 0.533 -1.397 0.723

B\*13:01 0.6711 0.985 0.681 0.496 -1.260 2.603

DQB1\*04:01 -0.1258 0.516 -0.244 0.807 -1.138 0.886

B\*15:16 0.0803 0.653 0.123 0.902 -1.200 1.361

B\*15:10 -0.3689 0.626 -0.589 0.556 -1.596 0.858

B\*39:10 -0.5073 0.602 -0.842 0.400 -1.688 0.673

A\*02:03 -1.0447 0.739 -1.414 0.157 -2.493 0.404

A\*80:01 -0.3390 0.598 -0.567 0.571 -1.511 0.833

C\*04:03 -0.2080 1.056 -0.197 0.844 -2.277 1.861

B\*37:02 -1.4486 0.651 -2.224 0.026 -2.725 -0.172

B\*15:18 0.3983 0.607 0.656 0.512 -0.791 1.588

B\*38:02 0.6200 0.731 0.848 0.396 -0.812 2.052

B\*15:24 -0.0263 0.595 -0.044 0.965 -1.192 1.139

B\*27:12 0.9481 1.203 0.788 0.430 -1.409 3.305

A\*74:03 -0.0079 0.824 -0.010 0.992 -1.624 1.608

DRB1\*08:02 0.3691 0.597 0.618 0.537 -0.801 1.540

B\*15:29 -0.1519 0.745 -0.204 0.838 -1.611 1.308

B\*48:04 2.9466 2.021 1.458 0.145 -1.014 6.907

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