Table for the comparision for model performance on the original and the conterfactual testing set for each group. "Or_" represents original testing set results, "CF_" represents counterfactual testing set results, "W" for white, "B" for black, "Diff" for the difference between two groups. FPR SP F1 AUC Or_W 0.2756 0.4398 0.1572 0.6740 0.5306 0.6413 CF W 0.3134 0.4887 0.1870 0.6772 0.5591 0.6509 Diff 0.0378 0.0489 0.0298 0.0032 0.0285 0.0096 Prompt1 Or B 0.5907 0.7210 0.4227 0.6582 0.7038 0.6491 CF B 0.5422 0.6873 0.3551 0.6688 0.7004 0.6661 0.0034 0.0170 Diff 0.0485 0.0337 0.0676 0.0106 Or W 0.2331 0.3910 0.1192 0.6756 0.5024 0.6359 CF_W 0.2882 0.4624 0.1626 0.6803 0.5479 0.6499 Diff 0.0551 0.0714 0.0434 0.0047 0.0455 0.0140 Prompt2 Or B 0.5591 0.6948 0.3841 0.6603 0.6974 0.6553 CF_B 0.5127 0.3357 0.6561 0.6804 0.6570 0.6498 0.0464 0.0450 0.0484 0.0042 0.0170 0.0017 Or W 0.1433 0.2669 0.0542 0.6614 0.3978 0.6064 0.4574 CF W 0.1732 0.3233 0.0650 0.6787 0.6291 Diff 0.0299 0.0564 0.0108 0.0173 0.0596 0.0227 Prompt3 Or B 0.4293 0.5824 0.2319 0.6635 0.6610 0.6753 CF_B 0.3787 0.5281 0.1860 0.6530 0.6316 0.6710 Diff 0.0506 0.0543 0.0459 0.0105 0.0294 0.0043 0.2520 Or W 0.4211 0.1300 0.6819 0.5258 0.6455 CF W 0.2898 0.4624 0.1653 0.6787 0.5467 0.6485 Diff 0.0378 0.0413 0.0032 0.0209 0.0030 0.0353 Prompt4 Or B 0.5601 0.6985 0.3816 0.6635 0.7005 0.6584 CF B 0.5137 0.6648 0.3188 0.6719 0.6954 0.6730 Diff 0.0464 0.0051 0.0146 0.0337 0.0628 0.0084 Or_W 0.2898 0.4398 0.1816 0.6598 0.5200 0.6291 CF W 0.3213 0.4737 0.2114 0.6567 0.5362 0.6312 Diff 0.0315 0.0339 0.0298 0.0031 0.0162 0.0021 Prompt5 Or_B 0.5475 0.6667 0.3937 0.6403 0.6761 0.6364 0.5127 0.6404 0.3478 0.6456 0.6706 0.6463 CF_B CF Diff 0.0348 0.0263 0.0459 0.0053 0.0055 0.0099 Or W 0.2646 0.4398 0.1382 0.6850 0.5392 0.6508 CF_W 0.3071 0.4737 0.1870 0.6709 0.5466 0.6433 Diff 0.0425 0.0339 0.0488 0.0141 0.0074 0.0075 Prompt6 Or B 0.5643 0.6891 0.4034 0.6487 0.6885 0.6429 CF_B 0.5158 0.6479 0.3454 0.6508 0.6764 0.6513 Diff 0.0485 0.0412 0.0580 0.0021 0.0121 0.0084 Or W 0.3370 0.5075 0.2141 0.6693 0.5625 0.6467 CF_W 0.3543 0.5226 0.2331 0.6646 0.5662 0.6447

Diff

Or B

CF_B

Or W

CF W

Diff

Or B

CF_B

Or_W

CF_W

Or_B

CF B

Or_W CF W

Diff

Diff

Or_B

CF_B

Diff

Diff

Diff

Prompt7

Prompt8

LR

MLP

0.0173

0.6097

0.5981

0.0116

0.3559

0.3654

0.0095

0.6224

0.6044

0.0180

0.3228

0.4335

0.1107

0.5454

0.2425

0.3029

0.3228

0.4536

0.1308

0.4536

0.3228

0.1308

0.0151

0.7322

0.7079

0.0243

0.5376

0.5414

0.0038

0.7416

0.7303

0.0113

0.5000

0.5524

0.0524

0.6573

0.3835

0.2738

0.4624

0.5393

0.0769

0.5599

0.4474

0.1125

0.0190

0.4517

0.4565

0.0048

0.2249

0.2385

0.0136

0.4686

0.4420

0.0266

0.1951

0.5524

0.3573

0.4010

0.3835

0.0175

0.2222

0.3430

0.1208

0.3164

0.2331

0.0833

0.0047

0.6519

0.6361

0.0158

0.6756

0.6693

0.0063

0.6498

0.6551

0.0053

0.6772

0.6255

0.0517

0.6319

0.6598

0.0279

0.6457

0.5907

0.0550

0.6139

0.6331

0.0192

0.0037

0.7032

0.6866

0.0166

0.5813

0.5783

0.0030

0.7046

0.7046

0.0000

0.5648

0.6243

0.0595

0.6679

0.4857

0.1822

0.5223

0.5975

0.0752

0.6203

0.5053

0.1150

0.0020

0.6403

0.6257

0.0146

0.6563

0.6514

0.0049

0.6365

0.6442

0.0077

0.6524

0.6361

0.0163

0.6282

0.6213

0.0069

0.6201

0.5982

0.0219

0.6217

0.6072

0.0145