Table 5. Per–group results (accuracy, recall, precision and approval-rate disaggregated by groups A and B) for the online pipeline.

Variant	A Acc. (↑)	B Acc. (↑)	A Rec. (↑)	B Rec. (↑)	A Prec. (↑)	B Prec. (↑)	A AppRate (↑)	B AppRate (↑)
rep = 0.5 | lbl = 0.0 | A support = 3128 | B support = 2923								
none	**0.814**	<u>0.775</u>	**0.939**	<u>0.801</u>	0.794	<u>0.444</u>	**0.724**	0.338
reweight_auto	0.793	0.755	0.856	0.732	**0.815**	0.413	0.643	0.332
reweight_manual_A0.5_B1.5	<u>0.802</u>	**0.778**	<u>0.886</u>	**0.816**	<u>0.809</u>	**0.449**	<u>0.669</u>	<u>0.340</u>
mitigator_demographic_parity	0.495	0.667	0.354	0.394	0.663	0.252	0.327	0.294
mitigator_equalized_odds	0.573	0.665	0.541	0.524	0.694	0.286	0.477	**0.344**
rep = 0.5 | lbl = 0.4 | A support = 3118 | B support = 2986								
none	**0.833**	**0.784**	<u>0.898</u>	0.636	**0.868**	<u>0.181</u>	<u>0.724</u>	0.234
reweight_auto	0.802	0.728	**0.941**	**0.768**	0.807	0.166	**0.815**	<u>0.307</u>
reweight_manual_A0.5_B1.5	<u>0.803</u>	0.777	0.865	<u>0.672</u>	<u>0.855</u>	**0.181**	0.707	0.246
mitigator_demographic_parity	0.418	<u>0.777</u>	0.245	0.354	0.758	0.115	0.226	0.203
mitigator_equalized_odds	0.607	0.683	0.620	0.571	0.773	0.116	0.561	**0.327**
rep = 0.5 | lbl = 0.5 | A support = 3167 | B support = 2933								
none	0.752	**0.779**	**0.844**	0.646	0.816	**0.162**	**0.741**	0.238
reweight_auto	<u>0.773</u>	0.738	<u>0.843</u>	**0.760**	<u>0.840</u>	<u>0.155</u>	<u>0.720</u>	0.293
reweight_manual_A0.5_B1.5	**0.777**	<u>0.748</u>	0.838	0.651	**0.849**	0.144	0.708	0.270
mitigator_demographic_parity	0.456	0.649	0.356	0.434	0.757	0.076	0.337	<u>0.343</u>
mitigator_equalized_odds	0.646	0.588	0.702	<u>0.669</u>	0.783	0.092	0.643	**0.432**
rep = 0.5 | lbl = 0.6 | A support = 3046 | B support = 3025								
none	0.785	<u>0.761</u>	0.835	0.427	<u>0.863</u>	0.100	0.701	0.231
reweight_auto	**0.831**	0.753	<u>0.894</u>	0.500	**0.875**	<u>0.110</u>	<u>0.740</u>	0.247
reweight_manual_A0.5_B1.5	<u>0.824</u>	0.739	**0.917**	**0.555**	0.851	**0.113**	**0.781**	<u>0.267</u>
mitigator_demographic_parity	0.378	**0.786**	0.205	0.226	0.760	0.066	0.195	0.184
mitigator_equalized_odds	0.633	0.574	0.695	<u>0.537</u>	0.775	0.068	0.649	**0.430**
rep = 0.6 | lbl = 0.0 | A support = 3781 | B support = 2346								
none	0.777	<u>0.758</u>	<u>0.873</u>	0.734	0.775	0.412	**0.661**	0.329
reweight_auto	<u>0.796</u>	0.756	0.859	**0.889**	**0.807**	<u>0.423</u>	0.625	**0.388**
reweight_manual_A0.5_B1.5	**0.796**	**0.776**	**0.886**	<u>0.831</u>	<u>0.792</u>	**0.443**	<u>0.656</u>	<u>0.347</u>
mitigator_demographic_parity	0.540	0.694	0.394	0.358	0.689	0.261	0.336	0.254
mitigator_equalized_odds	0.583	0.709	0.542	0.473	0.683	0.311	0.466	0.281
rep = 0.6 | lbl = 0.4 | A support = 3818 | B support = 2349								
none	<u>0.811</u>	<u>0.744</u>	<u>0.897</u>	0.667	**0.847**	0.182	0.757	0.281
reweight_auto	0.775	**0.750**	0.883	**0.761**	0.817	**0.201**	<u>0.773</u>	0.290
reweight_manual_A0.5_B1.5	**0.822**	0.738	**0.922**	0.717	<u>0.844</u>	<u>0.186</u>	**0.781**	0.295
mitigator_demographic_parity	0.633	0.444	0.736	<u>0.744</u>	0.746	0.096	0.705	**0.593**
mitigator_equalized_odds	0.660	0.573	0.749	0.700	0.769	0.117	0.697	<u>0.458</u>
rep = 0.6 | lbl = 0.5 | A support = 3830 | B support = 2351								
none	0.824	<u>0.726</u>	0.903	0.639	**0.854**	<u>0.115</u>	0.742	0.289
reweight_auto	<u>0.825</u>	0.684	<u>0.914</u>	**0.705**	0.848	0.109	<u>0.756</u>	0.337
reweight_manual_A0.5_B1.5	**0.834**	**0.728**	**0.929**	<u>0.672</u>	<u>0.849</u>	**0.120**	**0.769**	0.290
mitigator_demographic_parity	0.537	0.531	0.548	0.574	0.725	0.062	0.531	<u>0.476</u>
mitigator_equalized_odds	0.653	0.524	0.762	0.664	0.749	0.070	0.714	**0.493**
rep = 0.6 | lbl = 0.6 | A support = 3798 | B support = 2319								
none	<u>0.826</u>	**0.737**	<u>0.908</u>	0.500	0.861	**0.092**	**0.771**	0.263
reweight_auto	0.808	0.694	0.860	0.455	**0.875**	0.073	0.719	0.302
reweight_manual_A0.5_B1.5	**0.831**	<u>0.698</u>	**0.910**	0.509	<u>0.866</u>	<u>0.081</u>	<u>0.768</u>	0.303
mitigator_demographic_parity	0.626	0.457	0.702	<u>0.714</u>	0.767	0.061	0.669	**0.564**
mitigator_equalized_odds	0.697	0.490	0.815	**0.812**	0.780	0.073	0.764	<u>0.540</u>
rep = 0.7 | lbl = 0.0 | A support = 4374 | B support = 1721								
none	0.807	<u>0.749</u>	**0.923**	0.782	0.790	<u>0.414</u>	**0.697**	0.358
reweight_auto	**0.823**	0.744	0.897	<u>0.794</u>	**0.822**	0.409	0.650	0.368
reweight_manual_A0.5_B1.5	<u>0.812</u>	**0.770**	<u>0.921</u>	**0.801**	<u>0.796</u>	**0.441**	<u>0.690</u>	0.344
mitigator_demographic_parity	0.594	0.641	0.607	0.660	0.679	0.298	0.534	<u>0.419</u>
mitigator_equalized_odds	0.637	0.622	0.752	0.715	0.676	0.295	0.664	**0.460**
rep = 0.7 | lbl = 0.4 | A support = 4403 | B support = 1792								
none	<u>0.785</u>	<u>0.757</u>	0.839	0.556	**0.853**	<u>0.188</u>	0.692	0.252
reweight_auto	0.782	**0.810**	<u>0.895</u>	0.765	0.814	**0.277**	0.773	0.235
reweight_manual_A0.5_B1.5	**0.831**	0.688	**0.937**	0.745	<u>0.841</u>	0.180	<u>0.785</u>	0.354
mitigator_demographic_parity	0.654	0.472	0.761	<u>0.797</u>	0.751	0.118	0.714	<u>0.579</u>
mitigator_equalized_odds	0.666	0.467	0.826	**0.810**	0.734	0.118	**0.792**	**0.586**
rep = 0.7 | lbl = 0.5 | A support = 4486 | B support = 1745								
none	<u>0.821</u>	**0.720**	0.903	0.546	<u>0.855</u>	<u>0.118</u>	0.754	0.285
reweight_auto	0.819	0.653	**0.924**	0.759	0.839	**0.124**	**0.786**	0.379
reweight_manual_A0.5_B1.5	**0.822**	<u>0.682</u>	0.895	0.583	**0.861**	0.110	0.742	0.328
mitigator_demographic_parity	0.675	0.359	0.821	<u>0.843</u>	0.748	0.076	0.783	**0.684**
mitigator_equalized_odds	0.714	0.379	<u>0.904</u>	**0.861**	0.748	0.080	<u>0.862</u>	<u>0.665</u>
rep = 0.7 | lbl = 0.6 | A support = 4553 | B support = 1703								
none	<u>0.847</u>	**0.739**	<u>0.929</u>	0.515	<u>0.866</u>	0.112	0.766	0.263
reweight_auto	0.840	<u>0.726</u>	0.908	0.639	**0.873**	**0.126**	0.743	0.289
reweight_manual_A0.5_B1.5	**0.848**	0.713	**0.934**	0.629	0.864	<u>0.119</u>	<u>0.772</u>	0.301
mitigator_demographic_parity	0.685	0.396	0.829	<u>0.753</u>	0.754	0.068	**0.785**	0.633
mitigator_equalized_odds	0.721	0.406	0.907	**0.856**	0.753	0.077	**0.860**	0.635
rep = 0.8 | lbl = 0.0 | A support = 5040 | B support = 1186								
none	<u>0.810</u>	**0.777**	0.917	0.767	<u>0.796</u>	**0.451**	0.689	0.325
reweight_auto	**0.823**	<u>0.768</u>	**0.942**	**0.872**	**0.799**	<u>0.446</u>	<u>0.706</u>	0.374
reweight_manual_A0.5_B1.5	0.788	0.746	<u>0.922</u>	<u>0.841</u>	0.769	0.419	**0.717**	0.384
mitigator_demographic_parity	0.624	0.625	0.690	0.727	0.684	0.301	0.604	<u>0.462</u>
mitigator_equalized_odds	0.636	0.603	0.754	0.727	0.675	0.287	0.668	**0.484**
rep = 0.8 | lbl = 0.4 | A support = 5100 | B support = 1151								
none	**0.845**	<u>0.761</u>	0.936	0.605	<u>0.856</u>	<u>0.177</u>	0.767	0.255
reweight_auto	0.827	0.744	0.899	0.640	**0.861**	0.172	0.733	0.277
reweight_manual_A0.5_B1.5	<u>0.837</u>	**0.780**	<u>0.945</u>	0.663	0.842	**0.203**	0.788	0.244
mitigator_demographic_parity	0.716	0.411	0.890	**0.930**	0.752	0.106	<u>0.830</u>	**0.653**
mitigator_equalized_odds	0.731	0.424	**0.947**	<u>0.977</u>	0.741	0.113	**0.896**	<u>0.647</u>
rep = 0.8 | lbl = 0.5 | A support = 5027 | B support = 1178								
none	<u>0.831</u>	<u>0.669</u>	**0.946**	0.673	0.839	**0.081**	<u>0.805</u>	0.346
reweight_auto	0.821	0.650	0.902	0.510	**0.855**	0.061	0.753	0.351
reweight_manual_A0.5_B1.5	**0.835**	**0.718**	<u>0.929</u>	0.551	<u>0.853</u>	<u>0.080</u>	0.777	0.286
mitigator_demographic_parity	0.702	0.441	0.849	<u>0.714</u>	0.761	0.052	0.796	<u>0.576</u>
mitigator_equalized_odds	0.724	0.432	0.892	**0.776**	0.762	0.055	**0.835**	**0.591**
rep = 0.8 | lbl = 0.6 | A support = 5078 | B support = 1112								
none	<u>0.831</u>	**0.729**	0.922	0.527	<u>0.858</u>	**0.095**	0.787	0.273
reweight_auto	**0.847**	<u>0.725</u>	0.925	0.527	**0.874**	<u>0.094</u>	0.776	0.278
reweight_manual_A0.5_B1.5	0.830	0.657	<u>0.935</u>	0.618	0.849	0.086	0.807	0.354
mitigator_demographic_parity	0.753	0.294	<u>0.949</u>	<u>0.891</u>	0.768	0.059	<u>0.905</u>	**0.745**
mitigator_equalized_odds	0.752	0.301	**0.959**	**0.927**	0.763	0.062	**0.920**	<u>0.741</u>