Table 4. Per–group results (accuracy, recall, precision and approval-rate disaggregated by groups A and B) for the offline 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 = 632 | B support = 579								
none	**0.935**	0.967	**0.954**	0.830	0.942	**0.976**	**0.630**	0.147
reweight_auto	0.932	0.957	0.939	0.870	0.951	0.879	0.614	0.171
reweight_manual_A0.5_B1.5	0.921	0.960	0.941	0.800	0.932	0.964	0.628	0.143
mitigator_demographic_parity	0.894	0.611	0.847	**0.910**	**0.979**	0.296	0.538	**0.530**
mitigator_equalized_odds	0.929	0.962	0.939	0.850	0.946	0.924	0.617	0.159
rep = 0.5 | lbl = 0.4 | A support = 616 | B support = 605								
none	0.920	**0.954**	**0.948**	0.568	0.941	**0.636**	0.718	0.055
reweight_auto	**0.922**	0.929	**0.948**	0.676	0.943	0.446	0.716	0.093
reweight_manual_A0.5_B1.5	0.906	**0.954**	0.938	0.595	0.930	0.629	**0.719**	0.058
mitigator_demographic_parity	0.846	0.383	0.800	**0.838**	**0.980**	0.078	0.581	**0.658**
mitigator_equalized_odds	0.909	0.944	0.918	0.568	0.953	0.538	0.687	0.064
rep = 0.5 | lbl = 0.5 | A support = 644 | B support = 576								
none	**0.932**	0.955	**0.965**	0.677	0.940	0.568	**0.730**	0.064
reweight_auto	0.904	0.960	0.891	0.581	**0.971**	0.643	0.652	0.049
reweight_manual_A0.5_B1.5	0.915	**0.972**	0.921	0.645	0.957	**0.800**	0.685	0.043
mitigator_demographic_parity	0.846	0.451	0.808	**0.903**	0.971	0.082	0.592	**0.592**
mitigator_equalized_odds	0.925	0.960	0.932	0.677	0.962	0.618	0.689	0.059
rep = 0.5 | lbl = 0.6 | A support = 618 | B support = 597								
none	0.896	0.940	0.928	0.267	0.928	0.364	0.718	0.037
reweight_auto	**0.906**	0.925	**0.948**	0.567	0.923	0.347	**0.738**	0.082
reweight_manual_A0.5_B1.5	0.890	**0.951**	0.917	0.300	0.929	**0.529**	0.709	0.028
mitigator_demographic_parity	0.366	0.787	0.119	**0.767**	**0.981**	0.161	0.087	**0.240**
mitigator_equalized_odds	**0.906**	0.938	0.935	0.300	0.935	0.360	0.718	0.042
rep = 0.6 | lbl = 0.0 | A support = 771 | B support = 455								
none	0.917	**0.949**	0.925	0.816	0.933	**0.873**	0.585	0.156
reweight_auto	0.913	0.941	0.919	0.842	0.933	0.810	0.581	0.174
reweight_manual_A0.5_B1.5	**0.926**	0.947	**0.952**	0.829	0.925	0.851	**0.607**	0.163
mitigator_demographic_parity	0.913	0.596	0.914	**0.921**	**0.937**	0.282	0.576	**0.545**
mitigator_equalized_odds	0.925	0.947	0.947	0.842	0.927	0.842	0.603	0.167
rep = 0.6 | lbl = 0.4 | A support = 771 | B support = 463								
none	0.904	0.937	0.905	0.351	**0.957**	0.722	0.668	0.039
reweight_auto	**0.925**	0.922	0.945	0.541	0.948	0.513	0.704	0.084
reweight_manual_A0.5_B1.5	0.909	**0.942**	0.919	0.432	0.951	**0.727**	0.684	0.048
mitigator_demographic_parity	0.917	0.335	0.949	**0.946**	0.935	0.103	0.717	**0.737**
mitigator_equalized_odds	**0.925**	0.933	**0.960**	0.595	0.936	0.579	**0.725**	0.082
rep = 0.6 | lbl = 0.5 | A support = 776 | B support = 461								
none	0.930	0.954	0.913	0.484	0.984	0.750	0.635	0.043
reweight_auto	0.929	0.948	0.917	0.484	0.978	0.652	0.642	0.050
reweight_manual_A0.5_B1.5	0.912	**0.957**	0.885	0.419	**0.985**	**0.867**	0.615	0.033
mitigator_demographic_parity	0.930	0.282	**0.951**	**0.871**	0.947	0.076	**0.687**	**0.768**
mitigator_equalized_odds	**0.936**	0.946	0.940	0.484	0.965	0.625	0.666	0.052
rep = 0.6 | lbl = 0.6 | A support = 763 | B support = 461								
none	0.933	0.946	0.970	0.450	0.941	**0.391**	0.754	0.050
reweight_auto	0.928	0.920	0.970	0.450	0.934	0.257	0.759	0.076
reweight_manual_A0.5_B1.5	0.924	0.946	**0.980**	0.450	0.921	**0.391**	**0.779**	0.050
mitigator_demographic_parity	0.932	0.258	0.973	**0.900**	0.936	0.050	0.760	**0.777**
mitigator_equalized_odds	**0.934**	0.946	0.971	0.450	0.941	**0.391**	0.755	0.050
rep = 0.7 | lbl = 0.0 | A support = 881 | B support = 338								
none	**0.933**	0.938	**0.950**	0.806	0.938	0.847	0.604	0.175
reweight_auto	0.925	**0.947**	0.930	0.806	**0.944**	**0.893**	0.587	0.166
reweight_manual_A0.5_B1.5	0.927	0.944	0.937	0.806	0.941	0.877	0.594	0.169
mitigator_demographic_parity	0.930	0.571	0.943	**0.935**	0.939	0.291	0.598	**0.589**
mitigator_equalized_odds	0.930	**0.947**	0.949	0.839	0.934	0.867	**0.605**	0.178
rep = 0.7 | lbl = 0.4 | A support = 890 | B support = 349								
none	**0.939**	0.943	**0.965**	0.633	0.949	0.679	**0.709**	0.080
reweight_auto	**0.939**	0.926	0.955	0.667	**0.958**	0.556	0.696	0.103
reweight_manual_A0.5_B1.5	0.936	0.940	0.960	0.633	0.949	0.655	0.706	0.083
mitigator_demographic_parity	0.936	0.384	0.958	**0.867**	0.950	0.110	0.703	**0.679**
mitigator_equalized_odds	0.938	**0.946**	0.953	0.633	**0.958**	**0.704**	0.694	0.077
rep = 0.7 | lbl = 0.5 | A support = 887 | B support = 360								
none	**0.939**	0.908	**0.977**	0.588	0.942	0.278	**0.754**	0.100
reweight_auto	0.933	0.928	0.946	0.471	**0.962**	0.320	0.715	0.069
reweight_manual_A0.5_B1.5	0.928	**0.947**	0.938	0.529	0.962	**0.450**	0.709	0.056
mitigator_demographic_parity	0.937	0.192	0.974	**0.941**	0.942	0.052	0.752	**0.850**
mitigator_equalized_odds	**0.939**	0.928	0.961	0.588	0.955	0.345	0.732	0.081
rep = 0.7 | lbl = 0.6 | A support = 908 | B support = 344								
none	0.909	0.936	0.953	0.533	0.923	0.348	0.744	0.067
reweight_auto	0.912	0.904	**0.963**	0.600	0.918	0.250	**0.757**	0.105
reweight_manual_A0.5_B1.5	0.907	**0.956**	0.939	0.467	0.933	**0.500**	0.726	0.041
mitigator_demographic_parity	**0.924**	0.363	0.953	**0.667**	**0.943**	0.045	0.729	**0.651**
mitigator_equalized_odds	0.910	0.936	0.940	0.533	0.935	0.348	0.726	0.067
rep = 0.8 | lbl = 0.0 | A support = 1030 | B support = 216								
none	0.911	**0.944**	0.926	0.818	0.923	**0.900**	0.589	0.185
reweight_auto	0.920	0.940	0.924	0.818	**0.939**	0.878	0.578	0.190
reweight_manual_A0.5_B1.5	0.914	0.940	0.922	0.795	0.930	0.897	0.583	0.181
mitigator_demographic_parity	**0.925**	0.736	**0.940**	**0.909**	0.933	0.430	**0.592**	0.431
mitigator_equalized_odds	0.916	**0.944**	0.924	0.818	0.932	**0.900**	0.583	0.185
rep = 0.8 | lbl = 0.4 | A support = 1017 | B support = 234								
none	0.942	0.936	0.946	0.533	**0.971**	0.500	0.687	0.068
reweight_auto	0.940	0.919	0.946	0.600	0.969	0.409	0.689	0.094
reweight_manual_A0.5_B1.5	0.947	**0.944**	0.955	0.467	0.969	**0.583**	0.696	0.051
mitigator_demographic_parity	0.946	0.333	**0.965**	**0.800**	0.959	0.073	**0.711**	**0.705**
mitigator_equalized_odds	**0.952**	0.932	**0.965**	0.733	0.967	0.478	0.705	0.098
rep = 0.8 | lbl = 0.5 | A support = 1007 | B support = 234								
none	**0.948**	0.923	**0.972**	0.222	0.956	0.154	**0.725**	0.056
reweight_auto	0.929	0.932	0.940	0.222	**0.960**	0.182	0.698	0.047
reweight_manual_A0.5_B1.5	0.935	**0.953**	0.951	0.222	0.958	**0.333**	0.708	0.026
mitigator_demographic_parity	0.939	0.350	0.965	**0.889**	0.951	0.050	0.724	**0.679**
mitigator_equalized_odds	0.946	0.923	0.968	0.444	0.957	0.235	0.721	0.073
rep = 0.8 | lbl = 0.6 | A support = 1016 | B support = 222								
none	**0.932**	0.896	0.972	0.286	0.938	0.235	0.756	0.077
reweight_auto	0.929	0.815	**0.989**	0.571	0.920	0.186	**0.784**	0.194
reweight_manual_A0.5_B1.5	0.930	**0.910**	0.962	0.357	**0.943**	0.312	0.744	0.072
mitigator_demographic_parity	0.927	0.374	0.966	**0.857**	0.936	0.081	0.753	**0.671**
mitigator_equalized_odds	0.925	0.874	0.961	0.429	0.938	0.231	0.747	0.117