

## Results for the KNN algorithm

<b>h</b>	<b>Male</b>	<b>Female</b>	<b>Group Unfairness</b>	<b>Individual Unfairness</b>
Initial	64.2712	64.0210	0.0157	0.0722
1	63.0181	62.2943	0.1310	0.0658
2	63.0214	62.3097	0.1266	0.0659
3	63.0200	62.3669	0.1066	0.0658
4	63.0210	62.3367	0.1171	0.0660
5	63.0239	62.2815	0.1378	0.0658

Table 1: Results for the KNN algorithm with gender-based groups.

<b>h</b>	<b>Children</b>	<b>Teenager</b>	<b>Adult</b>	<b>Elder</b>	<b>Group Unfairness</b>	<b>Individual Unfairness</b>
Initial	23.4828	48.7850	65.6288	44.1351	225.6457	0.0722
1	23.3507	47.6696	64.2210	43.3067	211.9012	0.0661
2	23.3705	47.7880	64.2105	43.2619	211.8010	0.0660
3	23.3742	47.7414	64.2053	43.2347	211.6573	0.0658
4	23.3672	47.7481	64.2147	43.3296	211.7694	0.0658

Table 2: Results for the KNN algorithm with age-based groups.

<b>h</b>	<b>CA</b>	<b>IL</b>	<b>MN</b>	<b>NY</b>	<b>TX</b>	<b>Rest</b>	<b>Group Unfairness</b>	<b>Individual Unfairness</b>
Initial	67.4483	59.8881	61.5345	87.1139	59.5295	62.3443	93.3078	0.0722
1	66.3417	58.2746	60.2747	83.8354	58.4216	61.0869	80.3665	0.0661
2	66.2664	58.3588	60.2432	83.8026	58.4983	61.0657	79.8513	0.0659
3	66.3330	58.3252	60.2991	83.8637	58.4549	61.0935	80.3206	0.0661
4	66.2802	58.2624	60.2074	83.7685	58.4659	61.0701	79.9615	0.0655

Table 3: Results for the KNN algorithm with states-based groups.

<b>h</b>	<b>Blockbuster</b>	<b>Diversed</b>	<b>Niched</b>	<b>Group Unfairness</b>	<b>Individual Unfairness</b>
Initial	20.6032	49.1364	122.6704	1848.7868	0.0722
1	20.2589	48.3598	119.6713	1750.8685	0.0660
2	20.2659	48.3409	119.6441	1749.8194	0.0660
3	20.2689	48.3376	119.6990	1751.8497	0.0660
4	20.2658	48.3502	119.6854	1751.2974	0.0659

Table 4: Results for the KNN algorithm with popularity-based groups.