**Fairness Metrics vs Flip Percentage (Bias-True)**

Independence (M_ind) vs Flip Percentage

Before: 0.3530 ± 0.0113
After: 0.1522 ± 0.0115
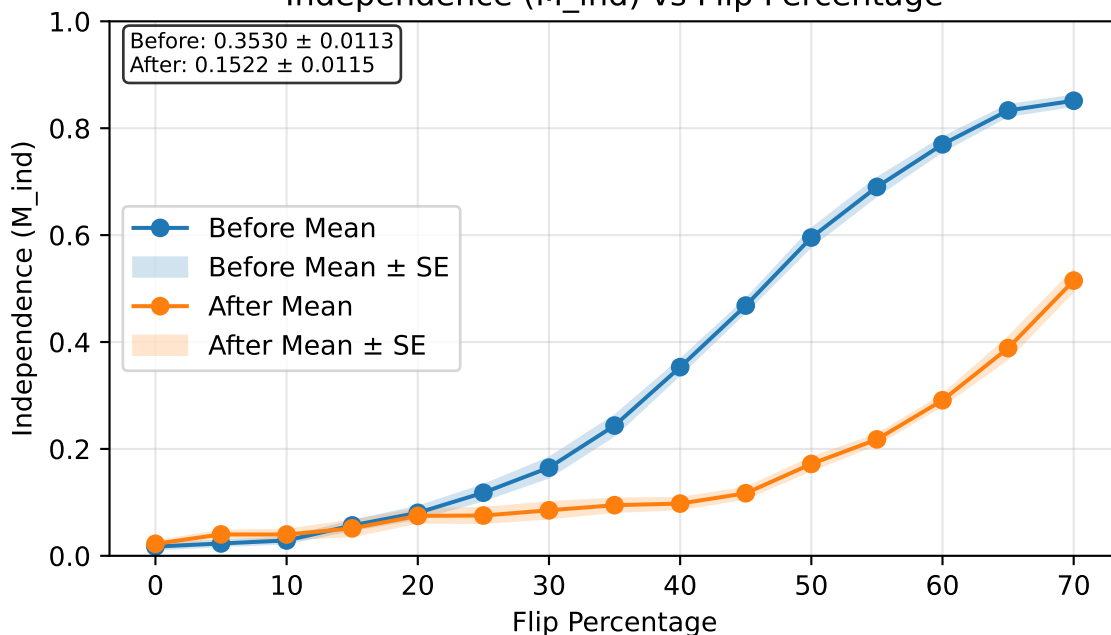
Separation (M_sep) vs Flip Percentage

Before: 0.6689 ± 0.0257
After: 0.3539 ± 0.0316
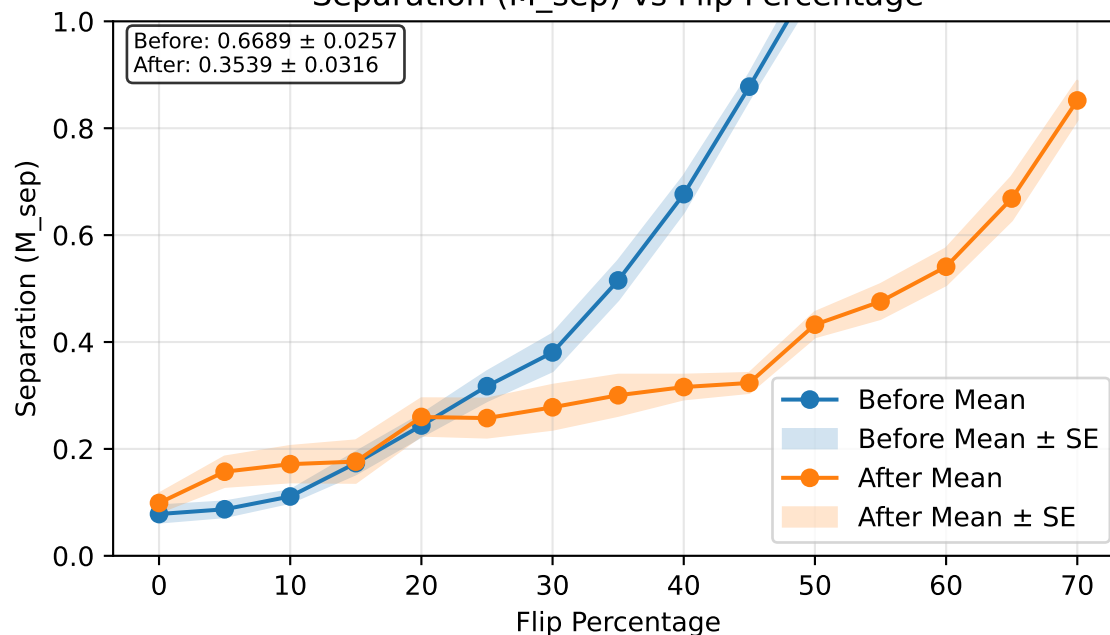
Sufficiency (M_suff) vs Flip Percentage

Before: 0.3803 ± 0.0323
After: 0.2933 ± 0.0346