

Complete Fairness Metrics Taxonomy

Independence (Group Fairness)

- Demographic Parity
- Statistical Parity
- 80% Rule

Separation (Conditional)

- Equal Opportunity
- Equalized Odds
- FPR Parity

Sufficiency (Calibration)

- Calibration
- PPV Parity
- Predictive Parity

Causal Fairness

- Counterfactual Fairness
- Path-Specific Effects

12 major metrics organized by type | Chouldechova (2017): Cannot satisfy all simultaneously