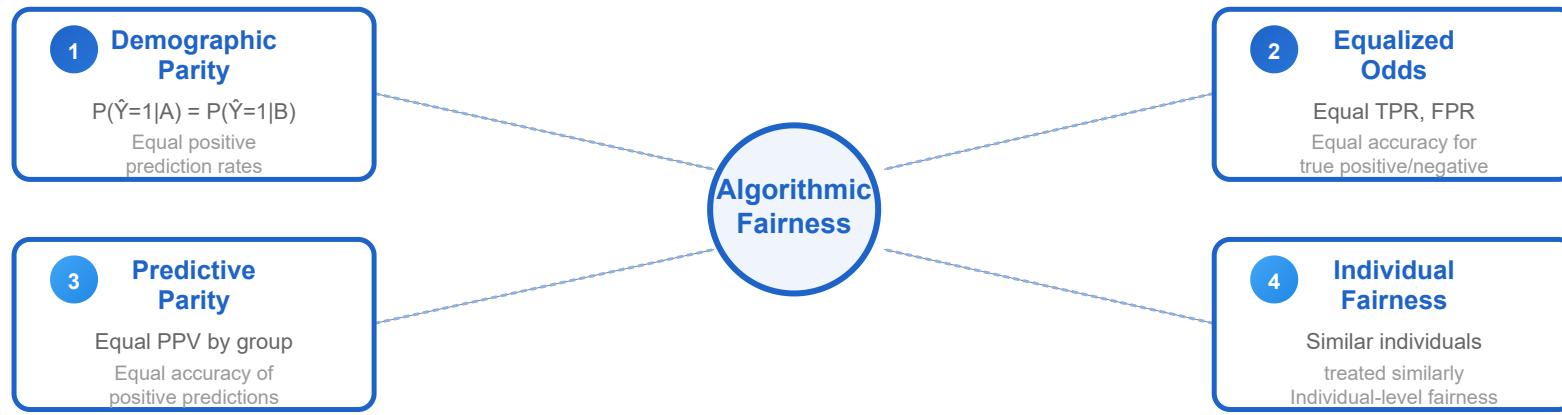


# Algorithmic Fairness

## Fairness Definitions



⚠ Impossible to satisfy all fairness criteria simultaneously

### ⚠ Trade-offs

- Fairness criteria cannot be satisfied simultaneously
- Accuracy vs fairness trade-offs
- Group fairness vs individual fairness
- Short-term vs long-term fairness

### 🛠️ Implementation Methods

- Pre-processing: Data resampling
- In-processing: Fairness-constrained learning
- Post-processing: Result adjustment
- Hybrid approaches