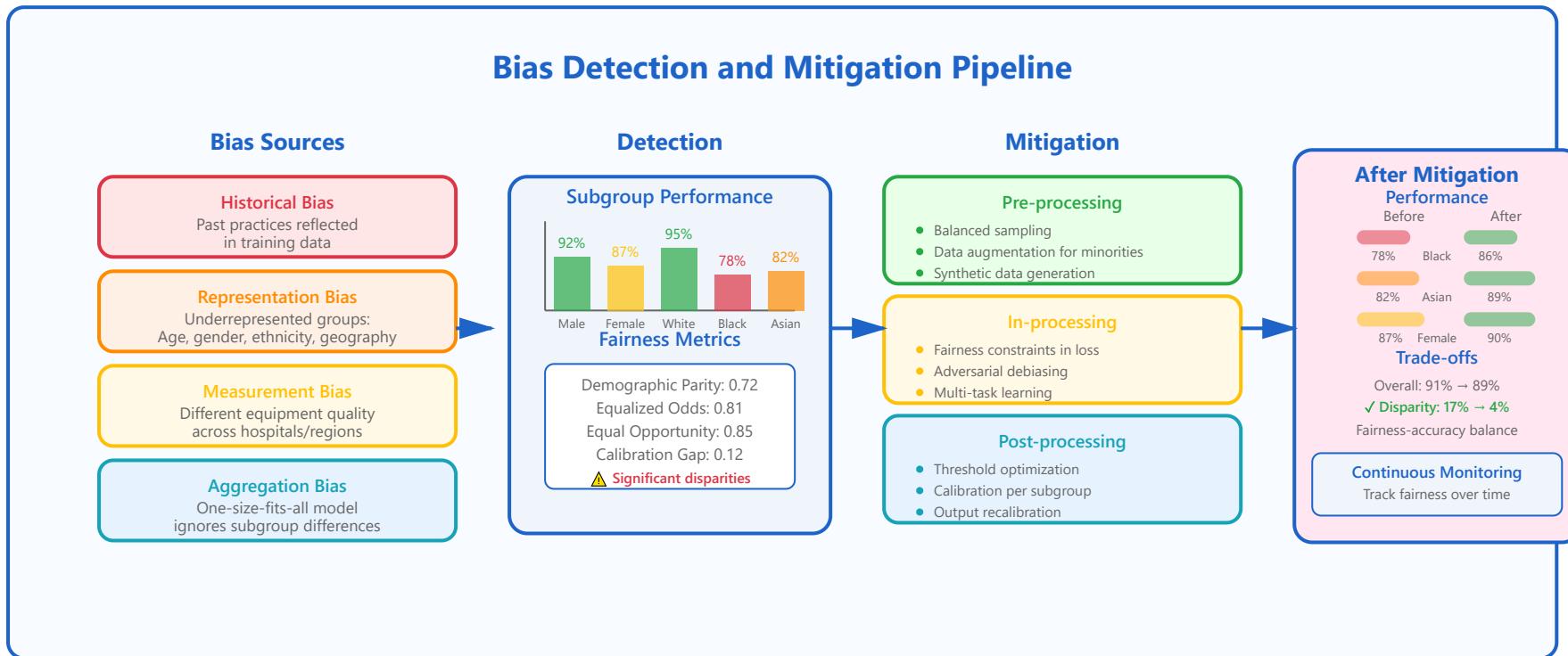


# Bias and Fairness



## Dataset Bias

Selection bias, label bias. Underrepresentation of certain demographics

## Demographic Disparities

Performance gaps across age, sex, race. Different disease prevalence and presentation

## Fairness Metrics

Equalized odds, demographic parity. Group fairness vs individual fairness

## Mitigation Strategies

Diverse training data, reweighting, adversarial debiasing. Fairness constraints

## **Continuous Monitoring**

Track performance by subgroup. Detect and address emerging disparities