

Propensity-based methods

Propensity-based methods are backdoor estimation methods that involve estimating the action as a function of the backdoor variables, $P(A|W)$. This fitted function is then used to derive matching, stratification or weighting methods.

Propensity-Based Matching

```
>>> causal_estimate_match = model.estimate_effect(identified_estimand,
>>>                                     method_name="backdoor.propensity_
>>>                                     target_units="atc")
>>> print(causal_estimate_match)
>>> print("Causal Estimate is " + str(causal_estimate_match.value))
```

Propensity-based Stratification

```
>>> causal_estimate_strat = model.estimate_effect(identified_estimand,
>>>                                     method_name="backdoor.propensity_
>>>                                     target_units="att")
>>> print(causal_estimate_strat)
>>> print("Causal Estimate is " + str(causal_estimate_strat.value))
```

Inverse Propensity Weighting

```
>>> causal_estimate_ipw = model.estimate_effect(identified_estimand,
>>>                                     method_name="backdoor.propensity_sc
>>>                                     target_units = "ate",
>>>                                     method_params={"weighting_scheme":"
>>> print(causal_estimate_ipw)
>>> print("Causal Estimate is " + str(causal_estimate_ipw.value))
```

[Skip to main content](#)

< Previous
[Distance-based matching](#)

Next >
[Do-sampler](#)

© Copyright 2022, PyWhy contributors.

Created using [Sphinx](#) 7.1.2.

Built with the [PyData Sphinx Theme](#) 0.14.4.