psmatching Documentation

Release latest

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Contents

Features

`psmatching` is a package for implementing propensity score matching in Python 3.

The following functionality is included in the package:

- Calculation of propensity scores based on a specified model
- Matching of k controls to each treatment case
- Use of a caliper to control the maximum difference between propensity scores
- Matching with or without replacement
- Evaluation of the matching process using statistical methods

CHAPTER 2

Installation

Install `psmatching` via `pip`

```
$ pip install psmatching
```

Usage

```
>>> # Instantiate PSMatch object
>>> m = PSMatch(path, model, k)

>>> # Calculate propensity scores and prepare data for matching
>>> m.prepare_data()

>>> # Perform matching
>>> m.match(caliper = None, replace = False)

>>> # Evaluate matches via chi-square test
>>> m.evaluate()
```

License

Apache 2.0