

Package ‘ife’

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Type Package

Title Autodiff for Influence Function Based Estimates

Version 0.2.0

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Description Implements an S7 class for estimates based on influence functions,
with forward mode automatic differentiation defined for standard arithmetic
operations.

License GPL (>= 3)

Encoding UTF-8

Imports cli, generics, S7 (>= 0.2.0)

RoxygenNote 7.3.2

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

NeedsCompilation no

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ife

*Create a new 'influence_func_estimate' object***Description**

Create a new 'influence_func_estimate' object

Usage

```
ife(
  x,
  eif,
  weights = rep(1, length(eif)),
  id = as.character(1:length(eif)),
  critical_value = qnorm(0.975)
)

influence_func_estimate(
  x,
  eif,
  weights = rep(1, length(eif)),
  id = as.character(1:length(eif)),
  critical_value = qnorm(0.975)
)
```

Arguments

x	[numeric(1)] The estimate.
eif	[numeric(n)] The influence function.
weights	[numeric(n)] Optional sampling weights.
id	[character(n)] Optional cluster identifiers.
critical_value	[numeric(1)] Optional critical value for constructing confidence interval.

Value

An 'S7' object of class influence_func_estimate.

Examples

```
x <- influence_func_estimate(5, runif(10))
y <- ife(5, runif(10))
x + y
x + 1
1 - y
x / y
x * y
tidy(x)
```

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