




validateHOT - Validate your Holdout Task

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DOI:

Software

- [Review](#) 
- [Repository](#) 
- [Archive](#) 

Submitted:

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Summary

validateHOT is a package that provides functions to both validate a validation/holdout task and run market simulations for results obtained a (adaptive) choice-based conjoint analysis and MaxDiff using [Sawtooth Software](#). Having valid data is essential to predict future choice behavior.

dfsdfdjf

Statement of need

Overview and features

```
data("MaxDiff")
HOT <- createHOT(
  data = MaxDiff, # data frame
  id = 1, # column index of unique identifier
  None = 19, # column index of none alternative
  prod = 7, # no of alternatives in HOT excluding none
  prod.levels = list(3, 10, 11, 15, 16, 17, 18), # column index of alternatives
  method = "MaxDiff", # method applied
  choice = 20 # column index of choice alternative
)
```

```
hitrate(
  data = HOT, # data frame
  opts = c(Option_1:None), # column names of alternatives
  choice = choice # column name of choice
) %>%
  round(3)
```

```
## # A tibble: 1 x 5
##   HR      se chance   cor     n
##   <dbl> <dbl>   <dbl> <dbl> <dbl>
## 1  55.7  5.98    12.5    39    70
```

```
turf(
  data = MaxDiff,
  opts = c(Option_01:Option_16),
  none = none,
  size = 3,
  approach = "thres"
) %>%
  head(., n = 5) %>%
  mutate_if(is.numeric, round, 2)
```

```
##      combo reach freq Option_01 Option_02 Option_03 Option_04 Option_05
## 1 Combo 1 84.29 1.50          1          0          0          1          0
## 2 Combo 2 82.86 1.64          0          0          0          1          0
## 3 Combo 3 82.86 1.60          0          0          0          1          0
## 4 Combo 4 82.86 1.46          1          0          0          1          0
## 5 Combo 5 81.43 1.63          0          0          0          0          0
##      Option_06 Option_07 Option_08 Option_09 Option_10 Option_11 Option_12
## 1          0          0          0          0          0          0          0
## 2          0          0          0          0          0          0          0
## 3          1          0          0          0          0          0          0
## 4          1          0          0          0          0          0          0
## 5          0          0          1          0          0          0          0
##      Option_13 Option_14 Option_15 Option_16
## 1          1          0          0          0
## 2          1          0          1          0
## 3          0          0          1          0
## 4          0          0          0          0
## 5          1          0          1          0
```

Availability

validateHOT is available on [Github](#).

References