Package ‘experiences’

October 31, 2022

Type Package

Title Experience Research

Version 0.1.1

Description Provides convenience functions for researching experiences including user, customer, patient, employee, and other human experiences. It provides a suite of tools to simplify data exploration such as benchmarking, comparing groups, and checking for differences. The outputs translate statistical approaches in applied experience research to human readable output.

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Encoding UTF-8

Imports cli, dplyr, huxtable, magrittr, scales, stringr, tibble

RoxygenNote 7.2.1

NeedsCompilation no

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Repository CRAN

Date/Publication 2022-10-31 14:10:12 UTC

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compare_benchmark_event

*Compare Probability of an Event with Benchmark*

Description

Compare Probability of an Event with Benchmark

Usage

```r
compare_benchmark_event(
  benchmark,
  event,
  total,
  event_type = "",
  notes = c("minimal", "technical")
)
```

Arguments

- **benchmark**: benchmark
- **event**: event
- **total**: total
- **event_type**: Optional: a string describing the type of event. For example, success, failure, etc.
- **notes**: whether output should contain minimal, technical, or executive type of notes.

Value

list of event rate, probability, notes

Examples

```r
compare_benchmark_event(benchmark = 0.7,
  event = 10,
  total = 12,
  event_type = "success",
  notes = "minimal")
```
**compare_benchmark_score**

*Compare Score with a Benchmark*

**Description**

Compare Score with a Benchmark

**Usage**

```r
compare_benchmark_score(
  data,
  benchmark,
  alpha,
  tail = "one",
  remove_missing = TRUE
)
```

**Arguments**

- **data**: a column or vector of scores
- **benchmark**: benchmark
- **alpha**: alpha
- **tail**: one-tailed or two-tailed test
- **remove_missing**: TRUE/FALSE remove missing values? (default is TRUE)

**Value**

- lower_ci, upper_ci, t, probability

**Examples**

```r
data <- 68 + 17 * scale(rnorm(20))  # 68 = mean, 17 = sd
compare_benchmark_score(data, benchmark = 60, alpha = 0.5)
```

---

**compare_benchmark_time**

*Compare Time with a Benchmark*

**Description**

Compare Time with a Benchmark
Usage

compare_benchmark_time(benchmark, time, alpha, remove_missing = FALSE)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>benchmark</td>
<td>benchmark</td>
</tr>
<tr>
<td>time</td>
<td>a column or vector of time values</td>
</tr>
<tr>
<td>alpha</td>
<td>alpha</td>
</tr>
<tr>
<td>remove_missing</td>
<td>TRUE/FALSE remove missing values?</td>
</tr>
</tbody>
</table>

Value

lower_ci, upper_ci, t, probability

Examples

```r
compare_benchmark_time(time = c(60, 53, 70, 42, 62, 43, 81),
                        benchmark = 60,
                        alpha = 0.05)
```

---

**t_dist_one_tailed**  
*T distribution - one-tailed*

Description

T distribution - one-tailed

Usage

t_dist_one_tailed(t_score, degrees_of_freedom)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>t_score</td>
<td>t value</td>
</tr>
<tr>
<td>degrees_of_freedom</td>
<td>degrees of freedom</td>
</tr>
</tbody>
</table>

Value

value
**Description**

T distribution - two-tailed

**Usage**

`t_dist_two_tailed(t_score, degrees_of_freedom)`

**Arguments**

- `t_score` : t value
- `degrees_of_freedom` : degrees of freedom

**Value**

value
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