

Package ‘TTU’

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Title Transfer to Utility Mapping Algorithm Toolkit

Version 0.0.0.9311

Description Tools for developping, sharing and reporting Transfer To Utility (TTU) mapping algorithms that predict health utility from other health measures. This development version of the TTU package has been made available as part of the process of testing and documenting the package. Some of the documentation for this package has been automatically generated by the ready4fun package and is therefore quite rudimentary. Human edits to improve the quality of documentation will follow in 2021. If you have any questions, please contact the authors (matthew.hamilton@orygen.org.au).

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URL <https://ready4-dev.github.io/TTU/>, <https://github.com/ready4-dev/TTU>,
<https://ready4-dev.github.io/ready4/>

Encoding UTF-8

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betareg,
boot,
Boruta,
brms,
caret,
cmdstanr (>= 0.4.0.9000),
cowplot,
dataverse (>= 0.3.9),
dplyr,
enrichwith,
eq5d,
faux,
ggalt,
ggfortify,
ggplot2,
here,
Hmisc,
kableExtra,

knitr,
 knitrBootstrap,
 lifecycle,
 lubridate,
 magrittr,
 MASS,
 methods,
 pacman,
 psych,
 purrr,
 randomForest,
 readr,
 ready4class ($\geq 0.0.0.9199$),
 ready4fun ($\geq 0.0.0.9298$),
 ready4show ($\geq 0.0.0.9038$),
 ready4use ($\geq 0.0.0.9133$),
 rlang,
 rmarkdown,
 stats,
 stringi,
 stringr,
 synthpop,
 testthat,
 tibble,
 tidyr,
 tidyselect,
 utils,
 viridis,
 xfun,
 youthvars ($\geq 0.0.0.9064$)

VignetteBuilder knitr

Depends R (≥ 2.10)

Remotes stan-dev/cmdstanr,
 ready4-dev/ready4show,
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 ready4-dev/youthvars,
 iqss/dataverse-client-r,
 ready4-dev/ready4class,
 ready4-dev/ready4fun

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TTU-package	<i>TTU: Transfer to Utility Mapping Algorithm Toolkit</i>
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Description

Tools for developping, sharing and reporting Transfer To Utility (TTU) mapping algorithms that predict health utility from other health measures. This development version of the TTU package has been made available as part of the process of testing and documenting the package. Some of the documentation for this package has been automatically generated by the ready4fun package and is therefore quite rudimentary. Human edits to improve the quality of documentation will follow in 2021. If you have any questions, please contact the authors (matthew.hamilton@orygen.org.au).

Details

To learn more about TTU, start with the vignettes: `browseVignettes(package = "TTU")`

Author(s)

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- Orygen [copyright holder, funder]
- Headspace [funder]
- National Health and Medical Research Council [funder]

See Also

Useful links:

- <https://ready4-dev.github.io/TTU/>
- <https://github.com/ready4-dev/TTU>
- <https://ready4-dev.github.io/ready4/>

abbreviations_lup	<i>Common abbreviations lookup table</i>
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Description

A lookup table for abbreviations commonly used in object names in the TTUpackage.

Usage

```
abbreviations_lup
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 503 rows and 3 columns.

Details

A tibble

short_name_chr Short name (a character vector)

long_name_chr Long name (a character vector)

plural_lgl Plural (a logical vector)

Source

<https://doi.org/10.7910/DVN/2Y9VF9>

add_utility_predn_to_ds	<i>Add utility prediction to dataset</i>
-------------------------	--

Description

`add_utility_predn_to_ds()` is an Add function that updates an object by adding data to that object. Specifically, this function implements an algorithm to add utility prediction to dataset. Function argument `data_tb` specifies the object to be updated. The function returns Data (a tibble).

Usage

```
add_utility_predn_to_ds(  
  data_tb,  
  model_mdl,  
  tfmn_1L_chr,  
  depnt_var_nm_1L_chr,  
  force_min_max_1L_lgl = T,  
  force_new_data_1L_lgl = F,  
  impute_1L_lgl = T,  
  is_brms_mdl_1L_lgl = T,  
  new_data_is_1L_chr = "Predicted",
```

```

  predn_type_1L_chr = NULL,
  predr_vars_nms_chr = NULL,
  rmv_tfd_depnt_var_1L_lgl = F,
  sd_dbl = NA_real_,
  utl_cls_fn = NULL,
  utl_min_val_1L_dbl = -1
)

```

Arguments

data_tb	Data (a tibble)
model_md1	Model (a model)
tfmn_1L_chr	Transformation (a character vector of length one)
depnt_var_nm_1L_chr	Dependent variable name (a character vector of length one)
force_min_max_1L_lgl	Force minimum maximum (a logical vector of length one), Default: T
force_new_data_1L_lgl	Force new data (a logical vector of length one), Default: F
impute_1L_lgl	Impute (a logical vector of length one), Default: T
is_brms_md1_1L_lgl	Is bayesian regression models model (a logical vector of length one), Default: T
new_data_is_1L_chr	New data is (a character vector of length one), Default: 'Predicted'
predn_type_1L_chr	Prediction type (a character vector of length one), Default: NULL
predr_vars_nms_chr	Predictor variables names (a character vector), Default: NULL
rmv_tfd_depnt_var_1L_lgl	Remove transformed dependent variable (a logical vector of length one), Default: F
sd_dbl	Standard deviation (a double vector), Default: NA
utl_cls_fn	Utility class (a function), Default: NULL
utl_min_val_1L_dbl	Utility minimum value (a double vector of length one), Default: -1

Value

Data (a tibble)

fns_dmt_tb

TTU function documentation table

Description

Meta-data on each TTU function used to create package documentation

Usage

```
fns_dmt_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 194 rows and 10 columns.

Details

A tibble

fns_chr Functions (a character vector)

title_chr Title (a character vector)

desc_chr Description (a character vector)

details_chr Details (a character vector)

inc_for_main_user_lgl Include for main user (a logical vector)

output_chr Output (a character vector)

example_lgl Example (a logical vector)

args_ls Arguments (a list)

file_nm_chr File name (a character vector)

file_pfx_chr File prefix (a character vector)

Source

<https://ready4-dev.github.io/TTU/>

fn_type_lup_tb	<i>Function type lookup table</i>
----------------	-----------------------------------

Description

A lookup table to find descriptions for different types of functions used within the TTU package suite.

Usage

```
fn_type_lup_tb
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 46 rows and 6 columns.

Details

A tibble

fn_type_nm_chr Function type name (a character vector)

fn_type_desc_chr Function type description (a character vector)

first_arg_desc_chr First argument description (a character vector)

second_arg_desc_chr Second argument description (a character vector)

is_generic_lgl Is generic (a logical vector)

is_method_lgl Is method (a logical vector)

Source

<https://doi.org/10.7910/DVN/2Y9VF9>

get_background_text *Get background text*

Description

get_background_text() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get background text. Function argument results_ls specifies the where to look for the required object. The function returns Text (a character vector of length one).

Usage

```
get_background_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Text (a character vector of length one)

get_cndts_for_mxd_mdls
Get candidates for mxd models

Description

get_cndts_for_mxd_mdls() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get candidates for mxd models. Function argument mdl_types_lup specifies the where to look for the required object. The function returns Candidates for mxd models (a lookup table).

Usage

```
get_cndts_for_mxd_mdls(mdl_types_lup = NULL)
```

Arguments

mdl_types_lup Model types (a lookup table), Default: NULL

Value

Candidates for mxd models (a lookup table)

get_conclusion_text *Get conclusion text*

Description

get_conclusion_text() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get conclusion text. Function argument results_ls specifies the where to look for the required object. The function returns Text (a character vector of length one).

Usage

```
get_conclusion_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Text (a character vector of length one)

get_covars_by_ctg *Get covariates by category categories*

Description

get_covars_by_ctg() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get covariates by category categories. Function argument results_ls specifies the where to look for the required object. The function returns Covariates by category categories (a list).

Usage

```
get_covars_by_ctg(results_ls, collapse_1L_lgl = F)
```

Arguments

results_ls Results (a list)
collapse_1L_lgl
 Collapse (a logical vector of length one), Default: F

Value

Covariates by category categories (a list)

get_covar_ctgs	<i>Get covariate category categories</i>
----------------	--

Description

get_covar_ctgs() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get covariate category categories. Function argument results_ls specifies the where to look for the required object. The function returns Covariate category categories (a character vector).

Usage

```
get_covar_ctgs(results_ls, collapse_1L_lgl = T)
```

Arguments

results_ls	Results (a list)
collapse_1L_lgl	Collapse (a logical vector of length one), Default: T

Value

Covariate category categories (a character vector)

get_hlth_utl_nm	<i>Get health utility name</i>
-----------------	--------------------------------

Description

get_hlth_utl_nm() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get health utility name. Function argument results_ls specifies the where to look for the required object. The function returns Health utility name (a character vector of length one).

Usage

```
get_hlth_utl_nm(results_ls, short_nm_1L_lgl = T)
```

Arguments

results_ls	Results (a list)
short_nm_1L_lgl	Short name (a logical vector of length one), Default: T

Value

Health utility name (a character vector of length one)

get_hlth_utl_stat	<i>Get health utility statistic</i>
-------------------	-------------------------------------

Description

get_hlth_utl_stat() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get health utility statistic. Function argument results_ls specifies the where to look for the required object. The function returns Health utility statistic (a character vector of length one).

Usage

```
get_hlth_utl_stat(results_ls, stat_1L_chr = "bl_mean")
```

Arguments

results_ls	Results (a list)
stat_1L_chr	Statistic (a character vector of length one), Default: 'bl_mean'

Value

Health utility statistic (a character vector of length one)

get_link_from_tfmn	<i>Get link from transformation</i>
--------------------	-------------------------------------

Description

get_link_from_tfmn() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get link from transformation. Function argument tfmn_1L_chr specifies the where to look for the required object. The function returns Link (a character vector of length one).

Usage

```
get_link_from_tfmn(tfmn_1L_chr, is_OLS_1L_lgl = F)
```

Arguments

tfmn_1L_chr	Transformation (a character vector of length one)
is_OLS_1L_lgl	Is OLS (a logical vector of length one), Default: F

Value

Link (a character vector of length one)

get_lngl_ttu_types *Get lngl ttu types*

Description

get_lngl_ttu_types() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get lngl ttu types. Function argument results_ls specifies the where to look for the required object. The function returns Model types (a character vector).

Usage

```
get_lngl_ttu_types(results_ls, collapse_1L_lgl = T)
```

Arguments

results_ls Results (a list)
collapse_1L_lgl Collapse (a logical vector of length one), Default: T

Value

Model types (a character vector)

get_mdls_with_signft_covars
Get models with significant covariates

Description

get_mdls_with_signft_covars() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get models with significant covariates. Function argument outp_smry_ls specifies the where to look for the required object. The function returns Models with significant covariates (a list).

Usage

```
get_mdls_with_signft_covars(outp_smry_ls, params_ls_ls)
```

Arguments

outp_smry_ls Output summary (a list)
params_ls_ls Params (a list of lists)

Value

Models with significant covariates (a list)

get_md1_cmprsns *Get model comparisons*

Description

get_md1_cmprsns() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get model comparisons. Function argument results_ls specifies the where to look for the required object. The function returns Model comparisons (an output object of multiple potential types).

Usage

```
get_md1_cmprsns(
  results_ls,
  describe_1L_lgl = T,
  mixed_1L_lgl = F,
  as_list_1L_lgl = F
)
```

Arguments

results_ls Results (a list)
describe_1L_lgl Describe (a logical vector of length one), Default: T
mixed_1L_lgl Mixed (a logical vector of length one), Default: F
as_list_1L_lgl As list (a logical vector of length one), Default: F

Value

Model comparisons (an output object of multiple potential types)

get_md1_type_from_nm *Get model type from name*

Description

get_md1_type_from_nm() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get model type from name. Function argument mdl_nm_1L_chr specifies the where to look for the required object. The function returns Model type (a character vector of length one).

Usage

```
get_md1_type_from_nm(mdl_nm_1L_chr, mdl_types_lup = NULL)
```

Arguments

mdl_nm_1L_chr Model name (a character vector of length one)
mdl_types_lup Model types (a lookup table), Default: NULL

Value

Model type (a character vector of length one)

get_nbr_of_predrs *Get number of predictors*

Description

get_nbr_of_predrs() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get number of predictors. Function argument results_ls specifies the where to look for the required object. The function returns Number of predictors (an output object of multiple potential types).

Usage

```
get_nbr_of_predrs(results_ls, as_words_1L_lgl = T)
```

Arguments

results_ls Results (a list)
as_words_1L_lgl As words (a logical vector of length one), Default: T

Value

Number of predictors (an output object of multiple potential types)

get_nbr_of_predrs_by_ctg *Get number of predictors by category categories*

Description

get_nbr_of_predrs_by_ctg() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get number of predictors by category categories. Function argument results_ls specifies the where to look for the required object. The function returns Predictors by category categories (a character vector of length one).

Usage

```
get_nbr_of_predrs_by_ctg(results_ls)
```

Arguments

results_ls Results (a list)

Value

Predictors by category categories (a character vector of length one)

```
get_nbr_of_scndry_analyses
```

Get number of scndry analyses

Description

get_nbr_of_scndry_analyses() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get number of scndry analyses. Function argument results_ls specifies the where to look for the required object. The function returns Number of scndry analyses length one (an output object of multiple potential types).

Usage

```
get_nbr_of_scndry_analyses(
  results_ls,
  as_words_1L_lgl = T,
  capitalise_1L_lgl = T
)
```

Arguments

```
results_ls      Results (a list)
as_words_1L_lgl
                As words (a logical vector of length one), Default: T
capitalise_1L_lgl
                Capitalise (a logical vector of length one), Default: T
```

Value

Number of scndry analyses length one (an output object of multiple potential types)

```
get_ordered_sngl_csnl_mdls
```

Get ordered single csnl models

Description

get_ordered_sngl_csnl_mdls() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get ordered single csnl models. Function argument results_ls specifies the where to look for the required object. The function returns Ordered single csnl models (a character vector).

Usage

```
get_ordered_sngl_csnl_mdls(results_ls, select_int = NULL, collapse_1L_lgl = F)
```


Arguments

results_ls Results (a list)
 select_int Select (an integer vector), Default: NULL
 collapse_1L_lgl
 Collapse (a logical vector of length one), Default: F

Value

Ordered single csnl models (a character vector)

get_popl_descvs *Get population descriptives*

Description

get_popl_descvs() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get population descriptives. Function argument results_ls specifies the where to look for the required object. The function returns Population descriptives (a character vector of length one).

Usage

```
get_popl_descvs(results_ls)
```

Arguments

results_ls Results (a list)

Value

Population descriptives (a character vector of length one)

get_predrs_by_ctg *Get predictors by category categories*

Description

get_predrs_by_ctg() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get predictors by category categories. Function argument results_ls specifies the where to look for the required object. The function returns Predictors by category categories (a list).

Usage

```
get_predrs_by_ctg(
  results_ls,
  long_desc_1L_lgl = F,
  transform_1L_lgl = F,
  collapse_1L_lgl = F
)
```

Arguments

results_ls Results (a list)
 long_desc_1L_lgl
 Long description (a logical vector of length one), Default: F
 transform_1L_lgl
 Transform (a logical vector of length one), Default: F
 collapse_1L_lgl
 Collapse (a logical vector of length one), Default: F

Value

Predictors by category categories (a list)

get_predr_ctgs	<i>Get predictor category categories</i>
----------------	--

Description

get_predr_ctgs() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get predictor category categories. Function argument results_ls specifies the where to look for the required object. The function returns Predictor category categories (a character vector).

Usage

```
get_predr_ctgs(results_ls, collapse_1L_lgl = T)
```

Arguments

results_ls Results (a list)
 collapse_1L_lgl
 Collapse (a logical vector of length one), Default: T

Value

Predictor category categories (a character vector)

get_prefd_md1_predrs	<i>Get preferred model predictors</i>
----------------------	---------------------------------------

Description

get_prefd_md1_predrs() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get preferred model predictors. Function argument results_ls specifies the where to look for the required object. The function returns Predictors (a character vector of length one).

Usage

```
get_prefd_md1_predrs(results_ls)
```

Arguments

```
results_ls      Results (a list)
```

Value

Predictors (a character vector of length one)

```
get_scndry_anlys_descs
```

Get scndry anlys descriptions

Description

get_scndry_anlys_descs() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get scndry anlys descriptions. Function argument results_ls specifies the where to look for the required object. The function returns Scndry anlys descriptions (a character vector).

Usage

```
get_scndry_anlys_descs(results_ls)
```

Arguments

```
results_ls      Results (a list)
```

Value

Scndry anlys descriptions (a character vector)

```
get_selected_mixed_mdls
```

Get selected mixed models

Description

get_selected_mixed_mdls() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get selected mixed models. Function argument results_ls specifies the where to look for the required object. The function returns Mixed models (an output object of multiple potential types).

Usage

```
get_selected_mixed_mdls(results_ls, collapse_1L_lgl = T)
```

Arguments

results_ls Results (a list)
collapse_1L_lgl
 Collapse (a logical vector of length one), Default: T

Value

Mixed models (an output object of multiple potential types)

get_signft_covars *Get significant covariates*

Description

get_signft_covars() is a Get function that retrieves a pre-existing data object from memory, local file system or online repository. Specifically, this function implements an algorithm to get significant covariates. Function argument mdls_with_covars_smry_tb specifies the where to look for the required object. The function returns Sigt covariates (a character vector).

Usage

```
get_signft_covars(mdls_with_covars_smry_tb, covar_var_nms_chr)
```

Arguments

mdls_with_covars_smry_tb
 Models with covariates summary (a tibble)
covar_var_nms_chr
 Covariate variable names (a character vector)

Value

Sigt covariates (a character vector)

is_TTU_predictors_lup *Is TTU S3 class for candidate predictors lookup table*

Description

Check whether an object is a valid instance of the TTU S3 class for candidate predictors lookup table

Usage

```
is_TTU_predictors_lup(x)
```

Arguments

x An object of any type

Details

TTU S3 class for candidate predictors lookup table

Value

A logical value, TRUE if a valid instance of the TTU S3 class for candidate predictors lookup table

make_abstract_args_ls *Make abstract arguments*

Description

make_abstract_args_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make abstract arguments list. The function returns Abstract arguments (a list).

Usage

```
make_abstract_args_ls(results_ls, fl_nm_1L_chr = "abstract.txt")
```

Arguments

results_ls Results (a list)
 fl_nm_1L_chr File name (a character vector of length one), Default: 'abstract.txt'

Value

Abstract arguments (a list)

make_analysis_ds_smry_ls
Make analysis dataset summary

Description

make_analysis_ds_smry_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make analysis dataset summary list. The function returns Analysis dataset summary (a list).

Usage

```
make_analysis_ds_smry_ls(ds_descvs_ls, candidate_covar_nms_chr, predictors_lup)
```

Arguments

ds_descvs_ls Dataset descriptives (a list)
 candidate_covar_nms_chr
 Candidate covariate names (a character vector)
 predictors_lup Predictors (a lookup table)

Value

Analysis dataset summary (a list)

```
make_cmpst_sctr_and_dnsty_plt
```

Make cmpst scatter and dnsty

Description

make_cmpst_sctr_and_dnsty_plt() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make cmpst scatter and dnsty plot. The function is called for its side effects and does not return a value.

Usage

```
make_cmpst_sctr_and_dnsty_plt(  
  outp_smry_ls,  
  output_data_dir_1L_chr,  
  predr_var_nms_chr,  
  labels_chr = c("A", "B", "C", "D"),  
  label_x_1L_dbl = 0.1,  
  label_y_1L_dbl = 0.9,  
  label_size_1L_dbl = 22  
)
```

Arguments

outp_smry_ls Output summary (a list)

output_data_dir_1L_chr
 Output data directory (a character vector of length one)

predr_var_nms_chr
 Predictor variable names (a character vector)

labels_chr Labels (a character vector), Default: c("A", "B", "C", "D")

label_x_1L_dbl Label x (a double vector of length one), Default: 0.1

label_y_1L_dbl Label y (a double vector of length one), Default: 0.9

label_size_1L_dbl
 Label size (a double vector of length one), Default: 22

make_cndt_predr_text *Make candidate predictor text*

Description

make_cndt_predr_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make candidate predictor text. The function returns Text (a character vector of length one).

Usage

```
make_cndt_predr_text(results_ls, type_1L_chr = "description")
```

Arguments

results_ls Results (a list)
type_1L_chr Type (a character vector of length one), Default: 'description'

Value

Text (a character vector of length one)

make_coi_text *Make coi text*

Description

make_coi_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make coi text. The function returns Text (a character vector of length one).

Usage

```
make_coi_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Text (a character vector of length one)

make_correlation_text *Make correlation text*

Description

make_correlation_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make correlation text. The function returns Correlation text (a character vector of length one).

Usage

```
make_correlation_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Correlation text (a character vector of length one)

make_covariates_text *Make covariates text*

Description

make_covariates_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make covariates text. The function returns Text (a character vector of length one).

Usage

```
make_covariates_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Text (a character vector of length one)

`make_covar_ttu_tbl_refs`*Make covariate ttu table references*

Description

`make_covar_ttu_tbl_refs()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make covariate ttu table references. The function returns Text (a character vector of length one).

Usage

```
make_covar_ttu_tbl_refs(params_ls)
```

Arguments

`params_ls` Params (a list)

Value

Text (a character vector of length one)

`make_covar_ttu_tbl_title`*Make covariate ttu table title*

Description

`make_covar_ttu_tbl_title()` is a Make function that creates a new R object. Specifically, this function implements an algorithm to make covariate ttu table title. The function returns Title (a character vector of length one).

Usage

```
make_covar_ttu_tbl_title(results_ls, ref_1L_int = 1)
```

Arguments

`results_ls` Results (a list)

`ref_1L_int` Reference (an integer vector of length one), Default: 1

Value

Title (a character vector of length one)

make_data_availability_text

Make data availability text

Description

make_data_availability_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make data availability text. The function returns Text (a character vector of length one).

Usage

```
make_data_availability_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Text (a character vector of length one)

make_dnsty_and_sctr_plt_title

Make dnsty and scatter plot title

Description

make_dnsty_and_sctr_plt_title() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make dnsty and scatter plot title. The function returns Title (a character vector of length one).

Usage

```
make_dnsty_and_sctr_plt_title(results_ls)
```

Arguments

results_ls Results (a list)

Value

Title (a character vector of length one)

make_ds_descvs_ls *Make dataset descriptives*

Description

make_ds_descvs_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make dataset descriptives list. The function returns Dataset descriptives (a list).

Usage

```
make_ds_descvs_ls(
  candidate_predrs_chr,
  cohort_descv_var_nms_chr,
  dictionary_tb,
  id_var_nm_1L_chr,
  msrmnt_date_var_nm_1L_chr,
  round_var_nm_1L_chr,
  round_vals_chr,
  maui_item_pfx_1L_chr,
  utl_wtd_var_nm_1L_chr = "wtd_utl_dbl",
  utl_unwtd_var_nm_1L_chr = "unwtd_utl_dbl",
  candidate_covar_nms_chr = NULL,
  is_fake_1L_lgl = NULL
)
```

Arguments

candidate_predrs_chr Candidate predictors (a character vector)

cohort_descv_var_nms_chr Cohort descriptive variable names (a character vector)

dictionary_tb Dictionary (a tibble)

id_var_nm_1L_chr Identity variable name (a character vector of length one)

msrmnt_date_var_nm_1L_chr Measurement date variable name (a character vector of length one)

round_var_nm_1L_chr Round variable name (a character vector of length one)

round_vals_chr Round values (a character vector)

maui_item_pfx_1L_chr Maui item prefix (a character vector of length one)

utl_wtd_var_nm_1L_chr Utility weighted variable name (a character vector of length one), Default: 'wtd_utl_dbl'

utl_unwtd_var_nm_1L_chr Utility unwtd variable name (a character vector of length one), Default: 'unwtd_utl_dbl'

candidate_covar_nms_chr Candidate covariate names (a character vector), Default: NULL

is_fake_1L_lgl Is fake (a logical vector of length one), Default: NULL

Value

Dataset descriptives (a list)

make_ds_smry_ls	<i>Make dataset summary</i>
-----------------	-----------------------------

Description

make_ds_smry_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make dataset summary list. The function returns Dataset summary (a list).

Usage

```
make_ds_smry_ls(
  candidate_predrs_chr,
  candidate_covar_nms_chr,
  depnt_var_nm_1L_chr,
  dictionary_tb,
  id_var_nm_1L_chr,
  round_var_nm_1L_chr,
  round_bl_val_1L_chr,
  predictors_lup
)
```

Arguments

candidate_predrs_chr
Candidate predictors (a character vector)

candidate_covar_nms_chr
Candidate covariate names (a character vector)

depnt_var_nm_1L_chr
Dependent variable name (a character vector of length one)

dictionary_tb Dictionary (a tibble)

id_var_nm_1L_chr
Identity variable name (a character vector of length one)

round_var_nm_1L_chr
Round variable name (a character vector of length one)

round_bl_val_1L_chr
Round baseline value (a character vector of length one)

predictors_lup Predictors (a lookup table)

Value

Dataset summary (a list)

make_eq5d_ds_dict	<i>Make eq5d dataset dictionary</i>
-------------------	-------------------------------------

Description

make_eq5d_ds_dict() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make eq5d dataset dictionary. The function returns Dictionary (a tibble).

Usage

```
make_eq5d_ds_dict(  
  data_tb = make_fake_eq5d_ds(),  
  predictors_lup = make_psych_predrs_lup()  
)
```

Arguments

data_tb Data (a tibble), Default: make_fake_eq5d_ds()
predictors_lup Predictors (a lookup table), Default: make_psych_predrs_lup()

Value

Dictionary (a tibble)

make_ethics_text	<i>Make ethics text</i>
------------------	-------------------------

Description

make_ethics_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make ethics text. The function returns Text (a character vector of length one).

Usage

```
make_ethics_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Text (a character vector of length one)

make_fake_eq5d_ds *Make fake eq5d dataset*

Description

make_fake_eq5d_ds() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make fake eq5d dataset. The function returns Data (a tibble).

Usage

```
make_fake_eq5d_ds(
  country_1L_chr = "UK",
  version_1L_chr = "5L",
  type_1L_chr = "CW",
  force_attach_1L_lgl = T,
  prop_with_fup_data_1L_dbl = 0.65,
  seed_1L_int = 1234,
  sample_from_1L_int = 10000
)
```

Arguments

country_1L_chr Country (a character vector of length one), Default: 'UK'
 version_1L_chr Version (a character vector of length one), Default: '5L'
 type_1L_chr Type (a character vector of length one), Default: 'CW'
 force_attach_1L_lgl
 Force attach (a logical vector of length one), Default: T
 prop_with_fup_data_1L_dbl
 Prop with follow-up data (a double vector of length one), Default: 0.65
 seed_1L_int Seed (an integer vector of length one), Default: 1234
 sample_from_1L_int
 Sample from (an integer vector of length one), Default: 10000

Value

Data (a tibble)

make_fake_ts_data *Make fake time series data*

Description

make_fake_ts_data() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make fake time series data. The function returns Fk data (a tibble).

Usage

```
make_fake_ts_data(outp_smry_ls, dep_vars_are_NA_1L_lgl = T)
```

Arguments

outp_smry_ls Output summary (a list)
dep_vars_are_NA_1L_lgl
 Dep variables are NA (a logical vector of length one), Default: T

Value

Fk data (a tibble)

make_funding_text *Make funding text*

Description

make_funding_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make funding text. The function returns Text (a character vector of length one).

Usage

```
make_funding_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Text (a character vector of length one)

make_header_yaml_args_ls
 Make header yaml arguments

Description

make_header_yaml_args_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make header yaml arguments list. The function returns Header yaml arguments (a list).

Usage

```
make_header_yaml_args_ls(  
  authors_tb,  
  institutes_tb,  
  title_1L_chr,  
  keywords_chr,  
  fl_nm_1L_chr = "header_common.yaml",  
  use_fake_data_1L_lgl = F  
)
```

Arguments

authors_tb Authors (a tibble)
 institutes_tb Institutes (a tibble)
 title_1L_chr Title (a character vector of length one)
 keywords_chr Keywords (a character vector)
 fl_nm_1L_chr File name (a character vector of length one), Default: 'header_common.yaml'
 use_fake_data_1L_lgl Use fake data (a logical vector of length one), Default: F

Value

Header yaml arguments (a list)

make_indpnt_predrs_lngl_tbls_ref
Make indpnt predictors lngl tables reference

Description

make_indpnt_predrs_lngl_tbls_ref() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make indpnt predictors lngl tables reference. The function returns Text (a character vector of length one).

Usage

```
make_indpnt_predrs_lngl_tbls_ref(params_ls)
```

Arguments

params_ls Params (a list)

Value

Text (a character vector of length one)

make_indpnt_predrs_lngl_tbl_title
Make indpnt predictors lngl table title

Description

make_indpnt_predrs_lngl_tbl_title() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make indpnt predictors lngl table title. The function returns Title (a character vector of length one).

Usage

```
make_indpnt_predrs_lngl_tbl_title(results_ls, ref_1L_int = 1)
```


Arguments

results_ls	Results (a list)
ref_1L_int	Reference (an integer vector of length one), Default: 1

Value

Title (a character vector of length one)

make_input_params	<i>Make input params</i>
-------------------	--------------------------

Description

make_input_params() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make input params. The function returns Params (a list of lists).

Usage

```
make_input_params(
  ds_tb,
  ds_descvs_ls,
  header_yaml_args_ls,
  maui_params_ls,
  predictors_lup,
  control_ls = NULL,
  dv_ds_nm_and_url_chr = NULL,
  iters_1L_int = 4000L,
  mdl_smry_ls = make_mdl_smry_ls(),
  output_format_ls = make_output_format_ls(),
  path_params_ls = NULL,
  prefd_covars_chr = NULL,
  prefd_mdl_types_chr = NULL,
  prior_ls = NULL,
  seed_1L_int = 12345,
  scndry_anlys_params_ls = NULL,
  write_new_dir_1L_lgl = T
)
```

Arguments

ds_tb	Dataset (a tibble)
ds_descvs_ls	Dataset descriptives (a list)
header_yaml_args_ls	Header yaml arguments (a list)
maui_params_ls	Maui params (a list)
predictors_lup	Predictors (a lookup table)
control_ls	Control (a list), Default: NULL
dv_ds_nm_and_url_chr	Dataverse dataset name and url (a character vector), Default: NULL

iters_1L_int Iterations (an integer vector of length one), Default: 4000
 mdl_smry_ls Model summary (a list), Default: make_mdl_smry_ls()
 output_format_ls
 Output format (a list), Default: make_output_format_ls()
 path_params_ls Path params (a list), Default: NULL
 prefd_covars_chr
 Preferred covariates (a character vector), Default: NULL
 prefd_mdl_types_chr
 Preferred model types (a character vector), Default: NULL
 prior_ls Prior (a list), Default: NULL
 seed_1L_int Seed (an integer vector of length one), Default: 12345
 scndry_anlys_params_ls
 Scndry anlys params (a list), Default: NULL
 write_new_dir_1L_lgl
 Write new directory (a logical vector of length one), Default: T

Value

Params (a list of lists)

make_knit_pars_ls *Make knit parameters*

Description

make_knit_pars_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make knit parameters list. The function returns Knit parameters (a list).

Usage

```

make_knit_pars_ls(
  rltv_path_to_data_dir_1L_chr,
  mdl_types_chr,
  predr_vars_nms_ls,
  output_type_1L_chr = "HTML",
  mdl_types_lup = NULL,
  plt_types_lup = NULL,
  plt_types_chr = NA_character_,
  section_type_1L_chr = "#"
)

```

Arguments

rltv_path_to_data_dir_1L_chr
 Relative path to data directory (a character vector of length one)
 mdl_types_chr Model types (a character vector)
 predr_vars_nms_ls
 Predictor variables names (a list)

output_type_1L_chr
 Output type (a character vector of length one), Default: 'HTML'

mdl_types_lup Model types (a lookup table), Default: NULL

plt_types_lup Plot types (a lookup table), Default: NULL

plt_types_chr Plot types (a character vector), Default: 'NA'

section_type_1L_chr
 Section type (a character vector of length one), Default: '#'

Value

Knit parameters (a list)

make_lngl_ttu_r2_text *Make lngl ttu r2 text*

Description

make_lngl_ttu_r2_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make lngl ttu r2 text. The function returns Text (a character vector of length one).

Usage

```
make_lngl_ttu_r2_text(results_ls, part_int = 1)
```

Arguments

results_ls Results (a list)

part_int Part (an integer vector), Default: 1

Value

Text (a character vector of length one)

make_lngl_ttu_with_covars_text
Make lngl ttu with covariates text

Description

make_lngl_ttu_with_covars_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make lngl ttu with covariates text. The function returns Text (a character vector of length one).

Usage

```
make_lngl_ttu_with_covars_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Text (a character vector of length one)

make_maui_params_ls *Make maui params*

Description

make_maui_params_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make maui params list. The function returns Maui params (a list).

Usage

```
make_maui_params_ls(  
  maui_itm_short_nms_chr,  
  maui_domains_pfcs_1L_chr = NULL,  
  maui_scoring_fn = NULL,  
  short_and_long_nm = NULL,  
  utl_min_val_1L_dbl = -1  
)
```

Arguments

maui_itm_short_nms_chr
 Maui item short names (a character vector)

maui_domains_pfcs_1L_chr
 Maui domains pfcs (a character vector of length one), Default: NULL

maui_scoring_fn
 Maui scoring (a function), Default: NULL

short_and_long_nm
 PARAM_DESCRIPTION, Default: NULL

utl_min_val_1L_dbl
 Utility minimum value (a double vector of length one), Default: -1

Value

Maui params (a list)

make_mdl	<i>Make</i>
----------	-------------

Description

make_mdl() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make model. The function returns Model (a model).

Usage

```
make_mdl(  
  data_tb,  
  depnt_var_nm_1L_chr = "utl_total_w",  
  tfmn_1L_chr = "NTF",  
  predr_var_nm_1L_chr,  
  covar_var_nms_chr = NA_character_,  
  mdl_type_1L_chr = "OLS_NTF",  
  mdl_types_lup = NULL,  
  control_1L_chr = NA_character_,  
  start_1L_chr = NULL  
)
```

Arguments

data_tb	Data (a tibble)
depnt_var_nm_1L_chr	Dependent variable name (a character vector of length one), Default: 'utl_total_w'
tfmn_1L_chr	Transformation (a character vector of length one), Default: 'NTF'
predr_var_nm_1L_chr	Predictor variable name (a character vector of length one)
covar_var_nms_chr	Covariate variable names (a character vector), Default: 'NA'
mdl_type_1L_chr	Model type (a character vector of length one), Default: 'OLS_NTF'
mdl_types_lup	Model types (a lookup table), Default: NULL
control_1L_chr	Control (a character vector of length one), Default: 'NA'
start_1L_chr	Start (a character vector of length one), Default: NULL

Value

Model (a model)

make_mdl_coef_range_text

Make model coefficient range text

Description

make_mdl_coef_range_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make model coefficient range text. The function returns Coefficient range text (a character vector).

Usage

```
make_mdl_coef_range_text(coef_ratios_dbl, nbr_of_digits_1L_int = 2L)
```

Arguments

coef_ratios_dbl

Coefficient ratios (a double vector)

nbr_of_digits_1L_int

Number of digits (an integer vector of length one), Default: 2

Value

Coefficient range text (a character vector)

make_mdl_desc_lines

Make model description lines

Description

make_mdl_desc_lines() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make model description lines. The function returns Model description lines (a character vector).

Usage

```
make_mdl_desc_lines(outp_smry_ls, mdl_nm_1L_chr, output_type_1L_chr = "PDF")
```

Arguments

outp_smry_ls Output summary (a list)

mdl_nm_1L_chr Model name (a character vector of length one)

output_type_1L_chr

Output type (a character vector of length one), Default: 'PDF'

Value

Model description lines (a character vector)

make_nbr_at_fup_text *Make number at follow-up text*

Description

make_nbr_at_fup_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make number at follow-up text. The function returns Number at follow-up (a character vector of length one).

Usage

```
make_nbr_at_fup_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Number at follow-up (a character vector of length one)

make_nbr_included_text
Make number included text

Description

make_nbr_included_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make number included text. The function is called for its side effects and does not return a value.

Usage

```
make_nbr_included_text(results_ls)
```

Arguments

results_ls Results (a list)

```
make_new_TTU_predictors_lup
```

Make new TTU S3 class for candidate predictors lookup table

Description

Create a new unvalidated instance of the TTU S3 class for candidate predictors lookup table

Usage

```
make_new_TTU_predictors_lup(x)
```

Arguments

x A prototype for the TTU S3 class for candidate predictors lookup table

Details

TTU S3 class for candidate predictors lookup table

Value

An unvalidated instance of the TTU S3 class for candidate predictors lookup table

```
make_output_format_ls Make output format list
```

Description

make_output_format_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make output format list. The function returns Output format (a list).

Usage

```
make_output_format_ls(
  manuscript_outp_1L_chr = "Word",
  manuscript_digits_1L_int = 2L,
  supplementary_outp_1L_chr = "PDF",
  supplementary_digits_1L_int = 2L
)
```

Arguments

manuscript_outp_1L_chr
 Manuscript output (a character vector of length one), Default: 'Word'

manuscript_digits_1L_int
 Manuscript digits (an integer vector of length one), Default: 2

supplementary_outp_1L_chr
 Supplementary output (a character vector of length one), Default: 'PDF'

supplementary_digits_1L_int
 Supplementary digits (an integer vector of length one), Default: 2

Value

Output format (a list)

make_path_params_ls *Make path params*

Description

make_path_params_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make path params list. The function returns Path params (a list).

Usage

```
make_path_params_ls(  
  path_to_data_from_top_level_chr = NULL,  
  path_from_top_level_1L_chr = NULL,  
  path_to_current_1L_chr = NULL,  
  dv_ds_nm_and_url_chr = NULL,  
  write_new_dir_1L_lgl = F,  
  use_fake_data_1L_lgl = F,  
  R_fl_nm_1L_chr = "aaaaaaaaa.txt"  
)
```

Arguments

path_to_data_from_top_level_chr
Path to data from top level (a character vector), Default: NULL

path_from_top_level_1L_chr
Path from top level (a character vector of length one), Default: NULL

path_to_current_1L_chr
Path to current (a character vector of length one), Default: NULL

dv_ds_nm_and_url_chr
Dataverse dataset name and url (a character vector), Default: NULL

write_new_dir_1L_lgl
Write new directory (a logical vector of length one), Default: F

use_fake_data_1L_lgl
Use fake data (a logical vector of length one), Default: F

R_fl_nm_1L_chr R file name (a character vector of length one), Default: 'aaaaaaaaa.txt'

Value

Path params (a list)

```
make_predrs_for_best_mdls
```

Make predictors for best models

Description

make_predrs_for_best_mdls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make predictors for best models. The function returns Predictors for best models (a character vector).

Usage

```
make_predrs_for_best_mdls(outp_smry_ls, old_nms_chr = NULL, new_nms_chr = NULL)
```

Arguments

outp_smry_ls	Output summary (a list)
old_nms_chr	Old names (a character vector), Default: NULL
new_nms_chr	New names (a character vector), Default: NULL

Value

Predictors for best models (a character vector)

```
make_predr_vals
```

Make predictor values

Description

make_predr_vals() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make predictor values. The function returns Predictor values (a double vector).

Usage

```
make_predr_vals(predr_var_nm_1L_chr, candidate_predrs_lup = NULL)
```

Arguments

predr_var_nm_1L_chr	Predictor variable name (a character vector of length one)
candidate_predrs_lup	Candidate predictors (a lookup table), Default: NULL

Value

Predictor values (a double vector)

 make_predr_vars_nms_ls

Make predictor variables names

Description

make_predr_vars_nms_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make predictor variables names list. The function returns Predictor variables names (a list).

Usage

```
make_predr_vars_nms_ls(main_predrs_chr, covars_ls, existing_predrs_ls = NULL)
```

Arguments

```
main_predrs_chr      Main predictors (a character vector)
covars_ls            Covariates (a list)
existing_predrs_ls    Existing predictors (a list), Default: NULL
```

Value

Predictor variables names (a list)

 make_prefd_mdls_vec *Make preferred models vector*

Description

make_prefd_mdls_vec() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make preferred models vector. The function returns Preferred models (a character vector).

Usage

```
make_prefd_mdls_vec(
  smry_of_sngl_predr_mdls_tb,
  choose_from_pfx_chr = c("BET", "GLM", "OLS"),
  mdl_types_lup = NULL
)
```

Arguments

```
smry_of_sngl_predr_mdls_tb  Summary of single predictor models (a tibble)
choose_from_pfx_chr          Choose from prefix (a character vector), Default: c("BET", "GLM", "OLS")
mdl_types_lup                Model types (a lookup table), Default: NULL
```

Value

Preferred models (a character vector)

make_pt_TTU_predictors_lup

Make prototype TTU S3 class for candidate predictors lookup table

Description

Create a new prototype for the TTU S3 class for candidate predictors lookup table

Usage

```
make_pt_TTU_predictors_lup(
  short_name_chr = character(0),
  long_name_chr = character(0),
  min_val_dbl = numeric(0),
  max_val_dbl = numeric(0),
  class_chr = character(0),
  increment_dbl = numeric(0),
  class_fn_chr = character(0),
  mdl_scaling_dbl = numeric(0),
  covariate_lgl = logical(0)
)
```

Arguments

short_name_chr	Short name (a character vector), Default: character(0)
long_name_chr	Long name (a character vector), Default: character(0)
min_val_dbl	Minimum value (a double vector), Default: numeric(0)
max_val_dbl	Maximum value (a double vector), Default: numeric(0)
class_chr	Class (a character vector), Default: character(0)
increment_dbl	Increment (a double vector), Default: numeric(0)
class_fn_chr	Class function (a character vector), Default: character(0)
mdl_scaling_dbl	Model scaling (a double vector), Default: numeric(0)
covariate_lgl	Covariate (a logical vector), Default: logical(0)

Details

TTU S3 class for candidate predictors lookup table

Value

A prototype for TTU S3 class for candidate predictors lookup table

```
make_random_forest_text
      Make random forest text
```

Description

make_random_forest_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make random forest text. The function returns Text (a character vector of length one).

Usage

```
make_random_forest_text(results_ls, for_abstract_1L_lgl = F)
```

Arguments

```
results_ls      Results (a list)
for_abstract_1L_lgl
                  For abstract (a logical vector of length one), Default: F
```

Value

Text (a character vector of length one)

```
make_results_ls      Make results
```

Description

make_results_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make results list. The function returns Results (a list).

Usage

```
make_results_ls(
  spine_of_results_ls = NULL,
  abstract_args_ls = NULL,
  dv_ds_nm_and_url_chr = NULL,
  output_format_ls = NULL,
  params_ls_ls = NULL,
  path_params_ls = NULL,
  study_descs_ls = NULL,
  fn_ls = NULL,
  include_idx_int = NULL,
  var_nm_change_lup = NULL,
  ctgl_vars_regrouping_ls = NULL,
  sig_covars_some_predrs_mdls_tb = NULL,
  sig_thresh_covars_1L_chr = NULL,
  version_1L_chr = NULL
)
```

Arguments

spine_of_results_ls	Spine of results (a list), Default: NULL
abstract_args_ls	Abstract arguments (a list), Default: NULL
dv_ds_nm_and_url_chr	Dataverse dataset name and url (a character vector), Default: NULL
output_format_ls	Output format (a list), Default: NULL
params_ls_ls	Params (a list of lists), Default: NULL
path_params_ls	Path params (a list), Default: NULL
study_descs_ls	Study descriptions (a list), Default: NULL
fn_ls	Function list (a list of functions), Default: NULL
include_idx_int	Include index (an integer vector), Default: NULL
var_nm_change_lup	Variable name change (a lookup table), Default: NULL
ctgl_vars_regrouping_ls	Ctgl variables regrouping (a list), Default: NULL
sig_covars_some_predrs_mdls_tb	Sig covariates some predictors models (a tibble), Default: NULL
sig_thresh_covars_1L_chr	Sig thresh covariates (a character vector of length one), Default: NULL
version_1L_chr	Version (a character vector of length one), Default: NULL

Value

Results (a list)

make_scaling_text	<i>Make scaling text</i>
-------------------	--------------------------

Description

make_scaling_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make scaling text. The function returns Text (a character vector of length one).

Usage

```
make_scaling_text(results_ls, table_1L_chr = "cfsc1")
```

Arguments

results_ls	Results (a list)
table_1L_chr	Table (a character vector of length one), Default: 'cfsc1'

Value

Text (a character vector of length one)

make_scndry_anlys_params
Make scndry anlys params

Description

make_scndry_anlys_params() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make scndry anlys params. The function returns New params (a list).

Usage

```
make_scndry_anlys_params(  
  scndry_anlys_params_ls = NULL,  
  candidate_covar_nms_chr = NULL,  
  candidate_predrs_chr = NULL,  
  predictors_lup = NULL,  
  prefd_covars_chr = NA_character_  
)
```

Arguments

scndry_anlys_params_ls
Scndry anlys params (a list), Default: NULL

candidate_covar_nms_chr
Candidate covariate names (a character vector), Default: NULL

candidate_predrs_chr
Candidate predictors (a character vector), Default: NULL

predictors_lup Predictors (a lookup table), Default: NULL

prefd_covars_chr
Preferred covariates (a character vector), Default: 'NA'

Value

New params (a list)

make_scndry_anlys_text
Make scndry anlys text

Description

make_scndry_anlys_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make scndry anlys text. The function returns Text (a character vector of length one).

Usage

```
make_scndry_anlys_text(results_ls)
```

Arguments

results_ls Results (a list)

Value

Text (a character vector of length one)

make_selected_md1_text

Make selected model text

Description

make_selected_md1_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make selected model text. The function returns Text (a character vector of length one).

Usage

```
make_selected_md1_text(results_ls, for_abstract_1L_lgl = F)
```

Arguments

results_ls Results (a list)

for_abstract_1L_lgl

For abstract (a logical vector of length one), Default: F

Value

Text (a character vector of length one)

make_shareable_md1

Make shareable

Description

make_shareable_md1() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make shareable model. The function returns Model (a model).

Usage

```
make_shareable_md1(
  fake_ds_tb,
  md1_smry_tb,
  depnt_var_nm_1L_chr = "ut1_total_w",
  id_var_nm_1L_chr = "fkClientID",
  tfmn_1L_chr = "CLL",
  md1_type_1L_chr = "OLS_CLL",
  md1_types_lup = NULL,
```



```

    control_1L_chr = NA_character_,
    start_1L_chr = NA_character_,
    seed_1L_int = 12345L
  )

```

Arguments

fake_ds_tb	Fake dataset (a tibble)
mdl_smry_tb	Model summary (a tibble)
depnt_var_nm_1L_chr	Dependent variable name (a character vector of length one), Default: 'utl_total_w'
id_var_nm_1L_chr	Identity variable name (a character vector of length one), Default: 'fkClientID'
tfmn_1L_chr	Transformation (a character vector of length one), Default: 'CLL'
mdl_type_1L_chr	Model type (a character vector of length one), Default: 'OLS_CLL'
mdl_types_lup	Model types (a lookup table), Default: NULL
control_1L_chr	Control (a character vector of length one), Default: 'NA'
start_1L_chr	Start (a character vector of length one), Default: 'NA'
seed_1L_int	Seed (an integer vector of length one), Default: 12345

Value

Model (a model)

make_study_descs_ls *Make study descriptions*

Description

make_study_descs_ls() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make study descriptions list. The function returns Input params (a list).

Usage

```

make_study_descs_ls(
  input_params_ls = NULL,
  time_btwn_bl_and_fup_1L_chr,
  background_1L_chr = "",
  coi_1L_chr = "None declared.",
  conclusion_1L_chr = "",
  ethics_1L_chr = NULL,
  funding_1L_chr = NULL,
  health_utl_nm_1L_chr = NULL,
  params_ls_ls = NULL,
  predr_ctgs_ls = NULL,
  sample_desc_1L_chr = NULL,
  var_nm_change_lup = NULL
)

```

Arguments

input_params_ls	Input params (a list), Default: NULL
time_btwn_bl_and_fup_1L_chr	Time btwn baseline and follow-up (a character vector of length one)
background_1L_chr	Background (a character vector of length one), Default: ""
coi_1L_chr	Coi (a character vector of length one), Default: 'None declared.'
conclusion_1L_chr	Conclusion (a character vector of length one), Default: ""
ethics_1L_chr	Ethics (a character vector of length one), Default: NULL
funding_1L_chr	Funding (a character vector of length one), Default: NULL
health_utl_nm_1L_chr	Health utility name (a character vector of length one), Default: NULL
params_ls_ls	Params (a list of lists), Default: NULL
predr_ctgs_ls	Predictor category categoriess (a list), Default: NULL
sample_desc_1L_chr	Sample description (a character vector of length one), Default: NULL
var_nm_change_lup	Variable name change (a lookup table), Default: NULL

Value

Input params (a list)

make_ten_folds_tbl_title
Make ten folds table title

Description

make_ten_folds_tbl_title() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make ten folds table title. The function returns Title (a character vector of length one).

Usage

```
make_ten_folds_tbl_title(results_ls, ref_1L_int = 1)
```

Arguments

results_ls	Results (a list)
ref_1L_int	Reference (an integer vector of length one), Default: 1

Value

Title (a character vector of length one)

make_ten_fold_text *Make ten fold text*

Description

make_ten_fold_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make ten fold text. The function returns Text (a character vector of length one).

Usage

```
make_ten_fold_text(results_ls, for_abstract_1L_lgl = F)
```

Arguments

results_ls Results (a list)
for_abstract_1L_lgl
 For abstract (a logical vector of length one), Default: F

Value

Text (a character vector of length one)

make_tfmn_cmprsn_plt *Make transformation comparison*

Description

make_tfmn_cmprsn_plt() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make transformation comparison plot. The function returns Transformation comparison (a plot).

Usage

```
make_tfmn_cmprsn_plt(data_tb, depnt_var_nm_1L_chr, dictionary_tb)
```

Arguments

data_tb Data (a tibble)
depnt_var_nm_1L_chr
 Dependent variable name (a character vector of length one)
dictionary_tb Dictionary (a tibble)

Value

Transformation comparison (a plot)

make_within_between_ratios_text

Make within between ratios text

Description

make_within_between_ratios_text() is a Make function that creates a new R object. Specifically, this function implements an algorithm to make within between ratios text. The function returns Text (a character vector of length one).

Usage

```
make_within_between_ratios_text(results_ls, exclude_covars_1L_lgl = F)
```

Arguments

results_ls Results (a list)

exclude_covars_1L_lgl

Exclude covariates (a logical vector of length one), Default: F

Value

Text (a character vector of length one)

mdl_types_lup

Model types lookup table

Description

A lookup table of abbreviations to describe the different model types supported by TTU functions

Usage

```
mdl_types_lup
```

Format

An object of class tbl_df (inherits from tbl, data.frame) with 12 rows and 13 columns.

Details

A tibble

short_name_chr Short name (a character vector)

long_name_chr Long name (a character vector)

control_chr Control (a character vector)

family_chr Family (a character vector)

fn_chr Function (a character vector)

start_chr Start (a character vector)

predn_type_chr Prediction type (a character vector)
tfmn_chr Transformation (a character vector)
tfmn_for_bnm1_lgl Transformation for binomial (a logical vector)
fixed_acronym_chr Fixed acronym (a character vector)
mixed_acronym_chr Mixed acronym (a character vector)
mixed_type_chr Mixed type (a character vector)
with_chr With (a character vector)

plt_types_lup	<i>Model plot types lookup table</i>
---------------	--------------------------------------

Description

A lookup table of abbreviations to describe the different model plot types supported by TTU functions

Usage

```
plt_types_lup
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 10 rows and 2 columns.

Details

A tibble

short_name_chr Short name (a character vector)

long_name_chr Long name (a character vector)

predict_utility	<i>Predict utility</i>
-----------------	------------------------

Description

`predict_utility()` is a Predict function that makes predictions from data using a specified statistical model. Specifically, this function implements an algorithm to predict utility. The function returns Predicted utility (a double vector).

Usage

```

predict_utility(
  data_tb,
  tfmn_1L_chr = "NTF",
  model_mdl,
  force_min_max_1L_lgl = T,
  force_new_data_1L_lgl = F,
  utl_min_val_1L_dbl = 0.03,
  impute_1L_lgl = T,
  utl_cls_fn = NULL,
  new_data_is_1L_chr = "Predicted",
  predn_type_1L_chr = NULL,
  sd_dbl = NA_real_,
  tfmn_for_bnml_1L_lgl = F,
  family_1L_chr = NA_character_,
  is_brms_mdl_1L_lgl = T
)

```

Arguments

data_tb	Data (a tibble)
tfmn_1L_chr	Transformation (a character vector of length one), Default: 'NTF'
model_mdl	Model (a model)
force_min_max_1L_lgl	Force minimum maximum (a logical vector of length one), Default: T
force_new_data_1L_lgl	Force new data (a logical vector of length one), Default: F
utl_min_val_1L_dbl	Utility minimum value (a double vector of length one), Default: 0.03
impute_1L_lgl	Impute (a logical vector of length one), Default: T
utl_cls_fn	Utility class (a function), Default: NULL
new_data_is_1L_chr	New data is (a character vector of length one), Default: 'Predicted'
predn_type_1L_chr	Prediction type (a character vector of length one), Default: NULL
sd_dbl	Standard deviation (a double vector), Default: NA
tfmn_for_bnml_1L_lgl	Transformation for binomial (a logical vector of length one), Default: F
family_1L_chr	Family (a character vector of length one), Default: 'NA'
is_brms_mdl_1L_lgl	Is bayesian regression models model (a logical vector of length one), Default: T

Value

Predicted utility (a double vector)

```
print_all_plts_for_mdl_set
```

Print all plots for model set

Description

print_all_plts_for_mdl_set() is a Print function that prints output to console. Specifically, this function implements an algorithm to print all plots for model set. The function is called for its side effects and does not return a value.

Usage

```
print_all_plts_for_mdl_set(output_ls, start_from_1L_int = 0L)
```

Arguments

output_ls Output (a list)
start_from_1L_int Start from (an integer vector of length one), Default: 0

```
print_cohort_table    Print cohort table
```

Description

print_cohort_table() is a Print function that prints output to console. Specifically, this function implements an algorithm to print cohort table. The function is called for its side effects and does not return a value.

Usage

```
print_cohort_table(params_ls, caption_1L_chr, mkdn_tbl_ref_1L_chr)
```

Arguments

params_ls Params (a list)
caption_1L_chr Caption (a character vector of length one)
mkdn_tbl_ref_1L_chr Markdown table reference (a character vector of length one)

print_corls_tbl *Print corls table*

Description

print_corls_tbl() is a Print function that prints output to console Specifically, this function implements an algorithm to print corls table. The function is called for its side effects and does not return a value.

Usage

```
print_corls_tbl(params_ls, caption_1L_chr, mkdn_tbl_ref_1L_chr)
```

Arguments

params_ls Params (a list)
caption_1L_chr Caption (a character vector of length one)
mkdn_tbl_ref_1L_chr Markdown table reference (a character vector of length one)

print_covar_ttu_tbls *Print covariate ttu tables*

Description

print_covar_ttu_tbls() is a Print function that prints output to console Specifically, this function implements an algorithm to print covariate ttu tables. The function is called for its side effects and does not return a value.

Usage

```
print_covar_ttu_tbls(params_ls, caption_1L_chr, table_1L_chr, ref_1L_int = 1)
```

Arguments

params_ls Params (a list)
caption_1L_chr Caption (a character vector of length one)
table_1L_chr Table (a character vector of length one)
ref_1L_int Reference (an integer vector of length one), Default: 1

```
print_indpnt_predrs_coefs_tbl
```

Print indpnt predictors coefficients table

Description

print_indpnt_predrs_coefs_tbl() is a Print function that prints output to console Specifically, this function implements an algorithm to print indpnt predictors coefficients table. The function is called for its side effects and does not return a value.

Usage

```
print_indpnt_predrs_coefs_tbl(params_ls, caption_1L_chr, mkdn_tbl_ref_1L_chr)
```

Arguments

params_ls Params (a list)
caption_1L_chr Caption (a character vector of length one)
mkdn_tbl_ref_1L_chr Markdown table reference (a character vector of length one)

```
print_indpnt_predrs_lngl mdl_coefs
```

Print indpnt predictors lngl model coefficients

Description

print_indpnt_predrs_lngl mdl_coefs() is a Print function that prints output to console Specifically, this function implements an algorithm to print indpnt predictors lngl model coefficients. The function is called for its side effects and does not return a value.

Usage

```
print_indpnt_predrs_lngl mdl_coefs(  
  params_ls,  
  caption_1L_chr,  
  ref_1L_int = 1,  
  table_1L_chr  
)
```

Arguments

params_ls Params (a list)
caption_1L_chr Caption (a character vector of length one)
ref_1L_int Reference (an integer vector of length one), Default: 1
table_1L_chr Table (a character vector of length one)

print_lngl_ttu_tbls *Print lngl ttu tables*

Description

print_lngl_ttu_tbls() is a Print function that prints output to console Specifically, this function implements an algorithm to print lngl ttu tables. The function is called for its side effects and does not return a value.

Usage

```
print_lngl_ttu_tbls(
  table_df,
  params_ls,
  caption_1L_chr,
  table_1L_chr,
  ref_1L_int = 1
)
```

Arguments

table_df	Table (a data.frame)
params_ls	Params (a list)
caption_1L_chr	Caption (a character vector of length one)
table_1L_chr	Table (a character vector of length one)
ref_1L_int	Reference (an integer vector of length one), Default: 1

print_ten_folds_tbl *Print ten folds table*

Description

print_ten_folds_tbl() is a Print function that prints output to console Specifically, this function implements an algorithm to print ten folds table. The function is called for its side effects and does not return a value.

Usage

```
print_ten_folds_tbl(
  params_ls,
  caption_1L_chr,
  mkdn_tbl_ref_1L_chr,
  ref_1L_int = 1
)
```

Arguments

params_ls	Params (a list)
caption_1L_chr	Caption (a character vector of length one)
mkdn_tbl_ref_1L_chr	Markdown table reference (a character vector of length one)
ref_1L_int	Reference (an integer vector of length one), Default: 1

print_ts_md1_plts	<i>Print time series model plots</i>
-------------------	--------------------------------------

Description

print_ts_md1_plts() is a Print function that prints output to console. Specifically, this function implements an algorithm to print time series model plots. The function is called for its side effects and does not return a value.

Usage

```
print_ts_md1_plts(paths_to_plts_chr, title_1L_chr, label_refs_chr, mdl_smry_ls)
```

Arguments

paths_to_plts_chr	Paths to plots (a character vector)
title_1L_chr	Title (a character vector of length one)
label_refs_chr	Label references (a character vector)
mdl_smry_ls	Model summary (a list)

prototype_lup	<i>Class prototype lookup table</i>
---------------	-------------------------------------

Description

Metadata on classes used in readyforwhatsnext suite

Usage

```
prototype_lup
```

Format

An object of class ready4_class_pt_lup (inherits from ready4_class_pt_lup, tbl_df, tbl, data.frame) with 28 rows and 6 columns.

Details

A tibble

type_chr Type (a character vector)

val_chr Value (a character vector)

pt_ns_chr Prototype namespace (a character vector)

fn_to_call_chr Function to call (a character vector)

default_val_chr Default value (a character vector)

old_class_lgl Old class (a logical vector)

reorder_cndt_predrs_chr

Reorder candidate predictors

Description

reorder_cndt_predrs_chr() is a Reorder function that reorders an object to conform to a pre-specified schema. Specifically, this function implements an algorithm to reorder candidate predictors character vector. The function is called for its side effects and does not return a value.

Usage

```
reorder_cndt_predrs_chr(
  candidate_predrs_chr,
  data_tb,
  depnt_var_nm_1L_chr = "utl_total_w",
  method_1L_chr = "pearson"
)
```

Arguments

candidate_predrs_chr
Candidate predictors (a character vector)

data_tb
Data (a tibble)

depnt_var_nm_1L_chr
Dependent variable name (a character vector of length one), Default: 'utl_total_w'

method_1L_chr
Method (a character vector of length one), Default: 'pearson'

Value

Reordered candidate (predictors)

rprt_lup	<i>Report types lookup table</i>
----------	----------------------------------

Description

A lookup table of the different report types supported by TTU functions

Usage

```
rprt_lup
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 3 rows and 7 columns.

Details

A tibble

rprt_nms_chr Report names (a character vector)

title_chr Title (a character vector)

paths_to_rmd_dir_IL_chr Paths to Markdown directory (a character vector of length one)

pkg_dirs_chr Package directories (a character vector)

packages_chr Packages (a character vector)

nms_of_rmd_chr Names of Markdown (a character vector)

rltv_paths_to_outpt_yaml_chr Relative paths to outpt yaml (a character vector)

`transform_data_tb_for_cmprsn`

Transform data tibble for comparison

Description

`transform_data_tb_for_cmprsn()` is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform data tibble for comparison. Function argument `data_tb` specifies the object to be updated. Argument `model_md` provides the object to be updated. The function returns Transformed data (a tibble).

Usage

```
transform_data_tb_for_cmprsn(
  data_tb,
  model_mdl,
  depnt_var_nm_1L_chr = "utl_total_w",
  source_data_nm_1L_chr = "Original",
  new_data_is_1L_chr = "Predicted",
  predn_type_1L_chr = NULL,
  family_1L_chr = NA_character_,
  impute_1L_lgl = F,
  is_brms_mdl_1L_lgl = F,
  sd_dbl = NA_real_,
  sfx_1L_chr = "",
  tfmn_for_bnm1_1L_lgl = F,
  tfmn_1L_chr = "NTF",
  utl_cls_fn = NULL,
  utl_min_val_1L_dbl = NA_real_
)
```

Arguments

data_tb	Data (a tibble)
model_mdl	Model (a model)
depnt_var_nm_1L_chr	Dependent variable name (a character vector of length one), Default: 'utl_total_w'
source_data_nm_1L_chr	Source data name (a character vector of length one), Default: 'Original'
new_data_is_1L_chr	New data is (a character vector of length one), Default: 'Predicted'
predn_type_1L_chr	Prediction type (a character vector of length one), Default: NULL
family_1L_chr	Family (a character vector of length one), Default: 'NA'
impute_1L_lgl	Impute (a logical vector of length one), Default: F
is_brms_mdl_1L_lgl	Is bayesian regression models model (a logical vector of length one), Default: F
sd_dbl	Standard deviation (a double vector), Default: NA
sfx_1L_chr	Suffix (a character vector of length one), Default: ''
tfmn_for_bnm1_1L_lgl	Transformation for binomial (a logical vector of length one), Default: F
tfmn_1L_chr	Transformation (a character vector of length one), Default: 'NTF'
utl_cls_fn	Utility class (a function), Default: NULL
utl_min_val_1L_dbl	Utility minimum value (a double vector of length one), Default: NA

Value

Transformed data (a tibble)

`transform_ds_for_mdlnG`*Transform dataset for modelling*

Description

`transform_ds_for_mdlnG()` is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform dataset for modelling. Function argument `data_tb` specifies the object to be updated. Argument `depnt_var_nm_1L_chr` provides the object to be updated. The function returns Transformed data (a tibble).

Usage

```
transform_ds_for_mdlnG(  
  data_tb,  
  depnt_var_nm_1L_chr = "utl_total_w",  
  predr_var_nm_1L_chr,  
  covar_var_nms_chr = NA_character_  
)
```

Arguments

<code>data_tb</code>	Data (a tibble)
<code>depnt_var_nm_1L_chr</code>	Dependent variable name (a character vector of length one), Default: 'utl_total_w'
<code>predr_var_nm_1L_chr</code>	Predictor variable name (a character vector of length one)
<code>covar_var_nms_chr</code>	Covariate variable names (a character vector), Default: 'NA'

Value

Transformed data (a tibble)

`transform_ds_to_predn_ds`*Transform dataset to prediction dataset*

Description

`transform_ds_to_predn_ds()` is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform dataset to prediction dataset. Function argument `data_tb` specifies the object to be updated. Argument `predr_vars_nms_chr` provides the object to be updated. The function returns Data (a tibble).

Usage

```
transform_ds_to_predn_ds(
  data_tb,
  predr_vars_nms_chr,
  tfmn_1L_chr,
  depnt_var_nm_1L_chr,
  id_var_nm_1L_chr,
  round_var_nm_1L_chr,
  round_bl_val_1L_chr,
  predictors_lup
)
```

Arguments

data_tb Data (a tibble)

predr_vars_nms_chr Predictor variables names (a character vector)

tfmn_1L_chr Transformation (a character vector of length one)

depnt_var_nm_1L_chr Dependent variable name (a character vector of length one)

id_var_nm_1L_chr Identity variable name (a character vector of length one)

round_var_nm_1L_chr Round variable name (a character vector of length one)

round_bl_val_1L_chr Round baseline value (a character vector of length one)

predictors_lup Predictors (a lookup table)

Value

Data (a tibble)

transform_mdl_vars_with_class

Transform model variables with classes

Description

transform_mdl_vars_with_class() is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform model variables with classes. Function argument ds_tb specifies the object to be updated. Argument predictors_lup provides the object to be updated. The function returns Transformed dataset (a tibble).

Usage

```
transform_mdl_vars_with_cls(
  ds_tb,
  predictors_lup = NULL,
  prototype_lup = NULL,
  depnt_var_nm_1L_chr = "utl_total_w",
  class_fn_1L_chr = "as.numeric"
)
```

Arguments

ds_tb	Dataset (a tibble)
predictors_lup	Predictors (a lookup table), Default: NULL
prototype_lup	Prototype (a lookup table), Default: NULL
depnt_var_nm_1L_chr	Dependent variable name (a character vector of length one), Default: 'utl_total_w'
class_fn_1L_chr	Class function (a character vector of length one), Default: 'as.numeric'

Value

Transformed dataset (a tibble)

```
transform_tb_to_mdl_inp
```

Transform tibble to model input

Description

transform_tb_to_mdl_inp() is a Transform function that edits an object in such a way that core object attributes - e.g. shape, dimensions, elements, type - are altered. Specifically, this function implements an algorithm to transform tibble to model input. Function argument data_tb specifies the object to be updated. Argument depnt_var_nm_1L_chr provides the object to be updated. The function returns Transformed for model input (a tibble).

Usage

```
transform_tb_to_mdl_inp(
  data_tb,
  depnt_var_nm_1L_chr = "utl_total_w",
  predr_vars_nms_chr,
  id_var_nm_1L_chr = "fkClientID",
  round_var_nm_1L_chr = "round",
  round_bl_val_1L_chr = "Baseline",
  drop_all_msng_1L_lgl = T,
  scaling_fctr_dbl = 1,
  tfmn_1L_chr = "NTF",
  ungroup_1L_lgl = F
)
```

Arguments

<code>data_tb</code>	Data (a tibble)
<code>depnt_var_nm_1L_chr</code>	Dependent variable name (a character vector of length one), Default: 'utl_total_w'
<code>predr_vars_nms_chr</code>	Predictor variables names (a character vector)
<code>id_var_nm_1L_chr</code>	Identity variable name (a character vector of length one), Default: 'fkClientID'
<code>round_var_nm_1L_chr</code>	Round variable name (a character vector of length one), Default: 'round'
<code>round_bl_val_1L_chr</code>	Round baseline value (a character vector of length one), Default: 'Baseline'
<code>drop_all_msng_1L_lgl</code>	Drop all missing (a logical vector of length one), Default: T
<code>scaling_fctr_dbl</code>	Scaling factor (a double vector), Default: 1
<code>tfmn_1L_chr</code>	Transformation (a character vector of length one), Default: 'NTF'
<code>ungroup_1L_lgl</code>	Ungroup (a logical vector of length one), Default: F

Value

Transformed for model input (a tibble)

`TTU_predictors_lup` *TTU S3 class for candidate predictors lookup table*

Description

Create a new valid instance of the TTU S3 class for candidate predictors lookup table

Usage

```
TTU_predictors_lup(x = make_pt_TTU_predictors_lup())
```

Arguments

<code>x</code>	A prototype for the TTU S3 class for candidate predictors lookup table, Default: <code>make_pt_TTU_predictors_lup()</code>
----------------	--

Details

TTU S3 class for candidate predictors lookup table

Value

A validated instance of the TTU S3 class for candidate predictors lookup table

 validate_TTU_predictors_lup

Validate TTU S3 class for candidate predictors lookup table

Description

Validate an instance of the TTU S3 class for candidate predictors lookup table

Usage

```
validate_TTU_predictors_lup(x)
```

Arguments

x An unvalidated instance of the TTU S3 class for candidate predictors lookup table

Details

TTU S3 class for candidate predictors lookup table

Value

A prototype for TTU S3 class for candidate predictors lookup table

 write_analyses

Write analyses

Description

write_analyses() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write analyses. The function is called for its side effects and does not return a value. **WARNING:** This function writes R scripts to your local environment. Make sure to only use if you want this behaviour

Usage

```
write_analyses(
  input_params_ls,
  abstract_args_ls = NULL,
  start_at_int = c(2, 1)
)
```

Arguments

input_params_ls Input params (a list)

abstract_args_ls Abstract arguments (a list), Default: NULL

start_at_int Start at (an integer vector), Default: c(2, 1)

write_csp_output	<i>Write csp output</i>
------------------	-------------------------

Description

write_csp_output() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write csp output. The function returns Results (a list).

Usage

```
write_csp_output(path_to_CSP_1L_chr)
```

Arguments

path_to_CSP_1L_chr
Path to CSP (a character vector of length one)

Value

Results (a list)

write_main_oupt_dir	<i>Write main oupt directory</i>
---------------------	----------------------------------

Description

write_main_oupt_dir() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write main oupt directory. The function returns Paths (a list).

Usage

```
write_main_oupt_dir(  
  params_ls = NULL,  
  use_fake_data_1L_lgl = F,  
  R_fl_nm_1L_chr = "aaaaaaaaa.txt"  
)
```

Arguments

params_ls Params (a list), Default: NULL
use_fake_data_1L_lgl Use fake data (a logical vector of length one), Default: F
R_fl_nm_1L_chr R file name (a character vector of length one), Default: 'aaaaaaaaa.txt'

Value

Paths (a list)

write_manuscript	<i>Write manuscript</i>
------------------	-------------------------

Description

write_manuscript() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write manuscript. The function returns Results (a list).

Usage

```
write_manuscript(
  abstract_args_ls = NULL,
  input_params_ls = NULL,
  results_ls = NULL,
  figures_in_body_lgl = NULL,
  output_type_1L_chr = NULL,
  tables_in_body_lgl = NULL,
  title_1L_chr = "Scientific manuscript",
  version_1L_chr = "0.4",
  write_to_dv_1L_lgl = F
)
```

Arguments

abstract_args_ls	Abstract arguments (a list), Default: NULL
input_params_ls	Input params (a list), Default: NULL
results_ls	Results (a list), Default: NULL
figures_in_body_lgl	Figures in body (a logical vector), Default: NULL
output_type_1L_chr	Output type (a character vector of length one), Default: NULL
tables_in_body_lgl	Tables in body (a logical vector), Default: NULL
title_1L_chr	Title (a character vector of length one), Default: 'Scientific manuscript'
version_1L_chr	Version (a character vector of length one), Default: '0.4'
write_to_dv_1L_lgl	Write to dataverse (a logical vector of length one), Default: F

Value

Results (a list)

 write_mdls_with_covars_cmprsn

Write models with covariates comparison

Description

write_mdls_with_covars_cmprsn() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write models with covariates comparison. The function returns Output summary (a list).

Usage

```
write_mdls_with_covars_cmprsn(
  scored_data_tb,
  bl_tb,
  ds_smry_ls,
  mdl_smry_ls,
  output_data_dir_1L_chr,
  seed_1L_int = 1234,
  session_data_ls = NULL
)
```

Arguments

scored_data_tb	Scored data (a tibble)
bl_tb	Baseline (a tibble)
ds_smry_ls	Dataset summary (a list)
mdl_smry_ls	Model summary (a list)
output_data_dir_1L_chr	Output data directory (a character vector of length one)
seed_1L_int	Seed (an integer vector of length one), Default: 1234
session_data_ls	Session data (a list), Default: NULL

Value

Output summary (a list)

 write_md1_cmprsn

Write model comparison

Description

write_md1_cmprsn() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write model comparison. The function returns Model comparison (a list).

Usage

```
write_mdl_cmprsn(
  scored_data_tb,
  ds_smry_ls,
  mdl_smry_ls,
  output_data_dir_1L_chr,
  seed_1L_int = 1234
)
```

Arguments

scored_data_tb Scored data (a tibble)
 ds_smry_ls Dataset summary (a list)
 mdl_smry_ls Model summary (a list)
 output_data_dir_1L_chr
 Output data directory (a character vector of length one)
 seed_1L_int Seed (an integer vector of length one), Default: 1234

Value

Model comparison (a list)

```
write_mdl_type_covars_mdls
                          Write model type covariates models
```

Description

write_mdl_type_covars_mdls() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write model type covariates models. The function returns Summary of models with covariates (a tibble).

Usage

```
write_mdl_type_covars_mdls(
  data_tb,
  depnt_var_nm_1L_chr = "utl_total_w",
  predrs_var_nms_chr,
  covar_var_nms_chr,
  mdl_type_1L_chr,
  path_to_write_to_1L_chr,
  new_dir_nm_1L_chr = "D_Covars_Selection",
  fl_nm_pfx_1L_chr = "D_CT",
  mdl_types_lup = NULL,
  start_1L_chr = NA_character_
)
```

Arguments

data_tb	Data (a tibble)
depnt_var_nm_1L_chr	Dependent variable name (a character vector of length one), Default: 'utl_total_w'
predrs_var_nms_chr	Predictors variable names (a character vector)
covar_var_nms_chr	Covariate variable names (a character vector)
mdl_type_1L_chr	Model type (a character vector of length one)
path_to_write_to_1L_chr	Path to write to (a character vector of length one)
new_dir_nm_1L_chr	New directory name (a character vector of length one), Default: 'D_Covars_Selection'
fl_nm_pfx_1L_chr	File name prefix (a character vector of length one), Default: 'D_CT'
mdl_types_lup	Model types (a lookup table), Default: NULL
start_1L_chr	Start (a character vector of length one), Default: 'NA'

Value

Summary of models with covariates (a tibble)

```
write_md1_type_multi_outps
      Write model type multi outputs
```

Description

write_md1_type_multi_outps() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write model type multi outputs. The function returns Summary of model single predictors (a tibble).

Usage

```
write_md1_type_multi_outps(
  data_tb,
  folds_1L_int = 10,
  predrs_var_nms_chr,
  covar_var_nms_chr = NA_character_,
  start_1L_chr = NULL,
  mdl_type_1L_chr,
  depnt_var_nm_1L_chr = "utl_total_w",
  path_to_write_to_1L_chr,
  new_dir_nm_1L_chr,
  mdl_types_lup = NULL,
  fl_nm_pfx_1L_chr = "C_PREDR",
  plt_idx_int = c(3, 5)
)
```


Arguments

data_tb	Data (a tibble)
folds_1L_int	Folds (an integer vector of length one), Default: 10
predrs_var_nms_chr	Predictors variable names (a character vector)
covar_var_nms_chr	Covariate variable names (a character vector), Default: 'NA'
start_1L_chr	Start (a character vector of length one), Default: NULL
mdl_type_1L_chr	Model type (a character vector of length one)
depnt_var_nm_1L_chr	Dependent variable name (a character vector of length one), Default: 'utl_total_w'
path_to_write_to_1L_chr	Path to write to (a character vector of length one)
new_dir_nm_1L_chr	New directory name (a character vector of length one)
mdl_types_lup	Model types (a lookup table), Default: NULL
fl_nm_pfx_1L_chr	File name prefix (a character vector of length one), Default: 'C_PREDR'
plt_idxes_int	Plot indices (an integer vector), Default: c(3, 5)

Value

Summary of model single predictors (a tibble)

write_predr_and_covars_cmprsn
Write predictor and covariates comparison

Description

write_predr_and_covars_cmprsn() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write predictor and covariates comparison. The function returns Predictor and covariates comparison (a list).

Usage

```
write_predr_and_covars_cmprsn(
  scored_data_tb,
  bl_tb,
  ds_smry_ls,
  mdl_smry_ls,
  output_data_dir_1L_chr,
  seed_1L_int = 1234
)
```

Arguments

scored_data_tb Scored data (a tibble)
 bl_tb Baseline (a tibble)
 ds_smry_ls Dataset summary (a list)
 mdl_smry_ls Model summary (a list)
 output_data_dir_1L_chr
 Output data directory (a character vector of length one)
 seed_1L_int Seed (an integer vector of length one), Default: 1234

Value

Predictor and covariates comparison (a list)

write_predr_cmprsn_outps

Write predictor comparison outputs

Description

write_predr_cmprsn_outps() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write predictor comparison outputs. The function returns Confirmed predictors (a tibble).

Usage

```
write_predr_cmprsn_outps(
  data_tb,
  path_to_write_to_1L_chr,
  new_dir_nm_1L_chr = "B_Candidate_Predrs_Cmprsn",
  depnt_var_nm_1L_chr = "utl_total_w",
  candidate_predrs_chr,
  max_nbr_of_boruta_mdl_runs_int = 300L
)
```

Arguments

data_tb Data (a tibble)
 path_to_write_to_1L_chr
 Path to write to (a character vector of length one)
 new_dir_nm_1L_chr
 New directory name (a character vector of length one), Default: 'B_Candidate_Predrs_Cmprsn'
 depnt_var_nm_1L_chr
 Dependent variable name (a character vector of length one), Default: 'utl_total_w'
 candidate_predrs_chr
 Candidate predictors (a character vector)
 max_nbr_of_boruta_mdl_runs_int
 Maximum number of boruta model runs (an integer vector), Default: 300

Value

Confirmed predictors (a tibble)

write_report	<i>Write report</i>
--------------	---------------------

Description

write_report() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write report. The function is called for its side effects and does not return a value. **WARNING:** This function writes R scripts to your local environment. Make sure to only use if you want this behaviour

Usage

```
write_report(
  params_ls,
  paths_ls,
  rpvt_nm_1L_chr,
  abstract_args_ls = NULL,
  header_yaml_args_ls = NULL,
  rpvt_lup = NULL
)
```

Arguments

params_ls	Params (a list)
paths_ls	Paths (a list)
rpvt_nm_1L_chr	Report name (a character vector of length one)
abstract_args_ls	Abstract arguments (a list), Default: NULL
header_yaml_args_ls	Header yaml arguments (a list), Default: NULL
rpvt_lup	Report (a lookup table), Default: NULL

write_reporting_dir	<i>Write reporting directory</i>
---------------------	----------------------------------

Description

write_reporting_dir() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write reporting directory. The function returns Path to CSP (a character vector of length one).

Usage

```
write_reporting_dir(
  path_to_write_to_1L_chr = getwd(),
  new_dir_nm_1L_chr = "TTU_Project",
  overwrite_1L_lgl = FALSE
)
```

Arguments

path_to_write_to_1L_chr
 Path to write to (a character vector of length one), Default: getwd()
 new_dir_nm_1L_chr
 New directory name (a character vector of length one), Default: 'TTU_Project'
 overwrite_1L_lgl
 Overwrite (a logical vector of length one), Default: FALSE

Value

Path to CSP (a character vector of length one)

write_shareable_mdls *Write shareable models*

Description

write_shareable_mdls() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write shareable models. The function returns Output summary (a list).

Usage

```
write_shareable_mdls(  
  outp_smry_ls,  
  new_dir_nm_1L_chr = "G_Shareable",  
  shareable_title_detail_1L_chr = "",  
  write_mdls_to_dv_1L_lgl = F  
)
```

Arguments

outp_smry_ls Output summary (a list)
 new_dir_nm_1L_chr
 New directory name (a character vector of length one), Default: 'G_Shareable'
 shareable_title_detail_1L_chr
 Shareable title detail (a character vector of length one), Default: ""
 write_mdls_to_dv_1L_lgl
 Write models to dataverse (a logical vector of length one), Default: F

Value

Output summary (a list)

```
write_sngl_predr_multi_mdls_outps
      Write single predictor multi models outputs
```

Description

write_sngl_predr_multi_mdls_outps() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write single predictor multi models outputs. The function returns Summary of single predictor models (a tibble).

Usage

```
write_sngl_predr_multi_mdls_outps(
  data_tb,
  mdl_types_chr,
  predr_var_nm_1L_chr,
  predr_var_desc_1L_chr,
  predr_vals_dbl,
  path_to_write_to_1L_chr,
  new_dir_nm_1L_chr = "A_Candidate_Mdls_Cmprsn",
  start_1L_chr = NULL,
  covar_var_nms_chr = NA_character_,
  depnt_var_nm_1L_chr = "utl_total_w",
  folds_1L_int = 10,
  mdl_types_lup = NULL,
  fl_nm_pfx_1L_chr = "A_RT_",
  plt_idx_int = NA_integer_,
  dictionary_tb
)
```

Arguments

data_tb	Data (a tibble)
mdl_types_chr	Model types (a character vector)
predr_var_nm_1L_chr	Predictor variable name (a character vector of length one)
predr_var_desc_1L_chr	Predictor variable description (a character vector of length one)
predr_vals_dbl	Predictor values (a double vector)
path_to_write_to_1L_chr	Path to write to (a character vector of length one)
new_dir_nm_1L_chr	New directory name (a character vector of length one), Default: 'A_Candidate_Mdls_Cmprsn'
start_1L_chr	Start (a character vector of length one), Default: NULL
covar_var_nms_chr	Covariate variable names (a character vector), Default: 'NA'
depnt_var_nm_1L_chr	Dependent variable name (a character vector of length one), Default: 'utl_total_w'
folds_1L_int	Folds (an integer vector of length one), Default: 10

mdl_types_lup Model types (a lookup table), Default: NULL
 fl_nm_pfx_1L_chr File name prefix (a character vector of length one), Default: 'A_RT_'
 plt_idx_s_int Plot indices (an integer vector), Default: NA
 dictionary_tb Dictionary (a tibble)

Value

Summary of single predictor models (a tibble)

write_to_delete_ds_copies
Write to delete dataset copies

Description

write_to_delete_ds_copies() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write to delete dataset copies. The function is called for its side effects and does not return a value. **WARNING:** This function writes R scripts to your local environment. Make sure to only use if you want this behaviour

Usage

```
write_to_delete_ds_copies(input_params_ls = NULL, paths_ls = NULL)
```

Arguments

input_params_ls Input params (a list), Default: NULL
 paths_ls Paths (a list), Default: NULL

write_to_delete_md1_fls
Write to delete model files

Description

write_to_delete_md1_fls() is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write to delete model files. The function is called for its side effects and does not return a value. **WARNING:** This function writes R scripts to your local environment. Make sure to only use if you want this behaviour

Usage

```
write_to_delete_md1_fls(outp_smry_ls)
```

Arguments

outp_smry_ls Output summary (a list)

```
write_ts_mdls_from_alg_outp
```

Write time series models from algorithm output

Description

`write_ts_mdls_from_alg_outp()` is a Write function that writes a file to a specified local directory. Specifically, this function implements an algorithm to write time series models from algorithm output. The function returns Output summary (a list).

Usage

```
write_ts_mdls_from_alg_outp(
  outp_smry_ls,
  predictors_lup,
  utl_min_val_1L_dbl = -1,
  backend_1L_chr = getOption("brms.backend", "rstan"),
  iters_1L_int = 4000L,
  new_dir_nm_1L_chr = "F_TS_Mdls",
  prior_ls = NULL,
  control_ls = NULL
)
```

Arguments

<code>outp_smry_ls</code>	Output summary (a list)
<code>predictors_lup</code>	Predictors (a lookup table)
<code>utl_min_val_1L_dbl</code>	Utility minimum value (a double vector of length one), Default: -1
<code>backend_1L_chr</code>	Backend (a character vector of length one), Default: <code>getOption("brms.backend", "rstan")</code>
<code>iters_1L_int</code>	Iterations (an integer vector of length one), Default: 4000
<code>new_dir_nm_1L_chr</code>	New directory name (a character vector of length one), Default: <code>'F_TS_Mdls'</code>
<code>prior_ls</code>	Prior (a list), Default: NULL
<code>control_ls</code>	Control (a list), Default: NULL

Value

Output summary (a list)

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