Package: tensorust (via r-universe)

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Type Package

Title Client for the 'Tensorust' Private Credit and Exposure Data API

Version 0.1.0

Description Retrieves data from the 'Tensorust' web API <https://shop.tensorust.com> as 'tibbles': the fair value marks that business development companies ('BDCs') report for the same private first-lien loan in their US Securities and Exchange Commission filings, the loans those lenders disagree on most, third-quarter markdowns as each filing posts, federal research awards whose papers name a vendor on a US banned-vendor list, and a catalog of entity-level datasets with free samples. Every endpoint answers a free preview without a key; a key set in the 'TENSORUST_API_KEY' environment variable returns full rows.

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URL https://github.com/Mattbusel/tensorust-r, https://shop.tensorust.com

BugReports https://github.com/Mattbusel/tensorust-r/issues

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`tr_api_available` *Does the 'Tensorust' API answer?*

Description

Sends one small request (the first catalog entry) with a short timeout. Never errors, so it is safe to use in `if ()` guards.

Usage

```
tr_api_available(timeout = 5)
```

Arguments

`timeout`	Seconds to wait for the answer.

Value

`TRUE` when the API answered with HTTP 200, otherwise `FALSE`.

Examples

```
tr_api_available()
```

tr_credit_disagreements

Loans BDC lenders disagree on most

Description

Companies whose first-lien loan two or more BDC managers mark 10 or more points of par apart in the same quarter, widest gap first. Without a key the top 10 are returned.

Usage

```
tr_credit_disagreements()
```

Value

A tibble: `company`, `gap_points` (highest minus lowest mark, in points of par), `lowest_mark_pct_of_par`, `lowest_manager`, `highest_mark_pct_of_par`, `highest_manager`, `loan_par_usd`, `funds` (BDC funds holding the loan) and `as_of` (the 10-Q period end).

See Also

`tr_lender_marks()` for every fund's mark on one company.

Examples

```
gaps <- tr_credit_disagreements()
gaps[, c("company", "gap_points", "lowest_manager", "highest_manager")]
```

tr_datasets

List the 'Tensorust' dataset catalog

Description

Reads the catalog of entity-level datasets (money owed, at risk, mispriced or about to expire, organization by organization), one row per dataset. The catalog is public and needs no key.

Usage

```
tr_datasets(max = Inf)
```

Arguments

`max`	Largest number of datasets to return. The default returns the whole catalog (about 145 datasets, read 50 at a time).

Value

A tibble with columns `slug` (the id used by `tr_sample()`), `name`, `line` (one-line description), `category`, `rows` (rows in the full file, when published), `tiers` (license tiers and prices, joined with "; "), `page`, `sample_csv` (the free sample link, `NA` when there is none yet) and `buy_url`.

See Also

`tr_sample()` to read a dataset's free sample.

Examples

```
catalog <- tr_datasets(max = 10)
catalog[, c("slug", "name", "category")]
```

---

tr_exposure *Federal research awards exposed to banned vendors*

Description

Federal research awards whose 2025-26 papers name a vendor on a US banned-vendor list: the Department of Defense 1260H list of Chinese military companies, the BIOSECURE list, the UFLPA entity list, Section 889 and the FCC Covered List. Ask either for one institution's awards or for the largest awards on one list.

Usage

```
tr_exposure(institution = NULL, list = NULL, limit = 50)
```

Arguments

`institution`	An institution name, for example `"Stanford University"`. Without a key the 5 largest awards are returned; with a key every award, with the methods sentence that names the vendor and the paper it comes from.
`list`	A banned-vendor list: one of `"1260H"`, `"BIOSECURE"`, `"UFLPA"`, `"SEC889"` or `"FCC_COVERED"`. Returns the largest awards on that list. Give either `institution` or `list`, not both.
`limit`	Largest number of awards for a `list` search (1 to 50).

Value

A tibble with one row per award: `award` (the award number), `recipient`, `recipient_uei`, `state`, `agency`, `title`, `fy25_obligations`, `fy26_amount`, `project_end`, `vendors`, `lists`, `rule_status`, `attribution` (`likely_paid`, `narrow` or `broad`), `in_force_or_no_grace`, `papers`, `latest_paper`, `evidence` and `evidence_paper`. For a `list` search the totals across all matching awards are kept in `attr(x, "summary")`.

Examples

```
stanford <- tr_exposure(institution = "Stanford University")
stanford[, c("award", "agency", "vendors", "lists")]

on_1260h <- tr_exposure(list = "1260H", limit = 5)
attr(on_1260h, "summary")$awards
```

`tr_has_key` *Is a 'Tensorust' key set?*

Description

Reports whether the `TENSORUST_API_KEY` environment variable holds a key. Without one, every function returns the free preview rows.

Usage

```
tr_has_key()
```

Value

`TRUE` or `FALSE`.

Examples

```
tr_has_key()
```

`tr_lender_marks` *What each BDC lender marks a company's loan at*

Description

Business development companies (BDCs) report a fair value for every private loan they hold in their quarterly SEC filings. When several BDCs lend to the same company, their marks for the same first-lien loan can differ by tens of points. This returns every fund's mark for the companies you name.

Usage

```
tr_lender_marks(company)
```

Arguments

`company`	One or more company names, as the BDC schedules spell them or close to it (for example `"Pluralsight"`).

Value

A tibble with one row per company and fund: `query` (the name you asked for), `company`, `fund`, `manager`, `mark_pct_of_par` (latest 10-Q fair value as a percent of par), `prior_mark_pct_of_par`, `sep30_mark_pct_of_par` (once filed), `par_usd`, `filing` (link to the SEC filing) and `as_of`. The prior mark, par and filing link need a key.

See Also

`tr_credit_disagreements()` for the loans lenders disagree on most.

Examples

```
tr_lender_marks("Pluralsight")
```

---

tr_q3_cuts *Third-quarter 2026 markdowns as BDCs file*

Description

BDC funds that cut a first-lien mark by 5 or more points of par from June 30 to September 30 2026, read from each third-quarter 10-Q as it posts on EDGAR, largest cut first. `holders_not_filed_yet_above` counts the other holders of the same loan that have not filed yet and still carry it 5 or more points higher. Without a key the top 10 are returned.

Usage

```
tr_q3_cuts()
```

Value

A tibble: `company`, `fund`, `manager`, `jun30_pct_of_par`, `sep30_pct_of_par`, `change_points`, `par_usd`, `filed` and `holders_not_filed_yet_above`.

Examples

```
cuts <- tr_q3_cuts()
cuts[, c("company", "manager", "change_points", "filed")]
```

`tr_sample` *Read a dataset's free sample*

Description

Downloads the free sample (usually 25 rows) of one catalog dataset. Columns differ from dataset to dataset; `tr_datasets()` shows which datasets have a sample (`sample_csv` is not `NA`).

Usage

```
tr_sample(slug)
```

Arguments

`slug`	The dataset id, the `slug` column of `tr_datasets()`, for example `"afida-foreign-farmland"`.

Value

A tibble with the sample rows, columns as published.

See Also

`tr_datasets()`.

Examples

```
farmland <- tr_sample("afida-foreign-farmland")
farmland[, 1:4]
```

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