

# Package ‘Rnumerai’

January 20, 2025

**Title** Interface to the Numerai Machine Learning Tournament API

**Version** 3.0.1

**Description** Routines to interact with the Numerai Machine Learning Tournament

API <<https://numer.ai>>. The functionality includes the ability to automatically download the current tournament data, submit predictions, and to get information for your user.

**Depends** R (>= 4.0)

**License** GPL-3

**Encoding** UTF-8

**URL** <https://github.com/Omni-Analytics-Group/Rnumerai>

**BugReports** <https://github.com/Omni-Analytics-Group/Rnumerai/issues>

**RoxygenNote** 7.2.1

**Imports** httr, lubridate, jsonlite, ghpkg

**NeedsCompilation** no

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**Repository** CRAN

**Date/Publication** 2022-09-14 20:20:02 UTC

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### ***daily\_model\_performances***

*Fetch Daily performance of any user*

---

#### **Description**

Fetch Daily performance of any user

#### **Usage**

```
daily_model_performances(username, tournament = 8)
```

#### **Arguments**

username	User Name
tournament	Tournament ID, 8 for Main, 11 for Signal

#### **Value**

list of round model performance entries

**Examples**

```
## Not run:  
daily_model_performances(username = "bayo")  
  
## End(Not run)
```

---

**daily\_submission\_performances**

*Fetch Daily Submission Performance of any user*

---

**Description**

Fetch Daily Submission Performance of any user

**Usage**

```
daily_submission_performances(username, tournament = 8)
```

**Arguments**

username	User Name
tournament	Tournament ID, 8 for Main, 11 for Signal

**Value**

list of round model performance entries

**Examples**

```
## Not run:  
daily_submission_performances(username = "bayo")  
  
## End(Not run)
```

---

**diagnostics**

*Fetch results of diagnostics run*

---

**Description**

Fetch results of diagnostics run

**Usage**

```
diagnostics(model_id, tournament = 8, diagnostics_id)
```

**Arguments**

model_id	Target model UUID
tournament	Tournament ID, 8 for Main, 11 for Signal
diagnostics_id	id returned by "upload_diagnostics"

**Value**

Diagnostic results

**Examples**

```
## Not run:
diagnostics(model_id = get_models()[["bayo"]], tournament=8, diagnostics_id = "")

## End(Not run)
```

**download\_dataset**      *Download specified file for the given round.*

**Description**

Download specified file for the given round.

**Usage**

```
download_dataset(
  filename = "v2/numerai_live_data.csv",
  dest_path = NA,
  round_num = NA
)
```

**Arguments**

filename	File to be downloaded, defaults to live data
dest_path	File path where the file should be stored, Defaults to current directory with file-name parameter
round_num	Tournament round you are interested in, defaults to the current round.

**Value**

list of filenames

**Examples**

```
## Not run:
download_dataset(round_num=328)

## End(Not run)
```

---

```
download_validation_data
```

*Download CSV file with historical targets and ticker universe*

---

### Description

Download CSV file with historical targets and ticker universe

### Usage

```
download_validation_data(file_path = "signals_historical_targets.csv")
```

### Arguments

file\_path      CSV file with predictions that will get uploaded

### Value

List of currently accepted tickers

### Examples

```
## Not run:  
download_validation_data(file_path = "signals_historical_targets.csv")  
  
## End(Not run)
```

---

```
get_account
```

*Get all information about your account*

---

### Description

Get all information about your account

### Usage

```
get_account()
```

### Value

User information

### Examples

```
## Not run:  
get_account()  
  
## End(Not run)
```

get_api_key	<i>Gets the Numerai API key</i>
-------------	---------------------------------

### Description

Gets the Numerai API key

### Usage

```
get_api_key()
```

### Value

Your Numerai API key, if set

### Examples

```
## Not run:  
get_api_key()  
  
## End(Not run)
```

get_competitions	<i>Retrieves information about all rounds</i>
------------------	---

### Description

Retrieves information about all rounds

### Usage

```
get_competitions(tournament = 8)
```

### Arguments

tournament      Tournament ID, 8 for Main, 11 for Signal

### Value

Rounds Information

### Examples

```
## Not run:  
get_competitions()  
  
## End(Not run)
```

---

`get_current_round`      *Get number of the current active round.*

---

**Description**

Get number of the current active round.

**Usage**

```
get_current_round()
```

**Value**

Number of the current active round

**Examples**

```
## Not run:  
get_current_round()  
  
## End(Not run)
```

---

`get_leaderboard`      *Get the current leaderboard*

---

**Description**

Get the current leaderboard

**Usage**

```
get_leaderboard(tournament = 8)
```

**Arguments**

`tournament`      Tournament ID, 8 for Main, 11 for Signal

**Value**

Leaderboard entries

**Examples**

```
## Not run:  
get_leaderboard()  
  
## End(Not run)
```

`get_models`*Get mapping of account model names to model ids for convenience***Description**

Get mapping of account model names to model ids for convenience

**Usage**

```
get_models(tournament = 8)
```

**Arguments**

`tournament`      Tournament ID, 8 for Main, 11 for Signal

**Value**

modelname -> model\_id list

**Examples**

```
## Not run:  
get_models()  
  
## End(Not run)
```

`get_public_id`*Gets the Numerai Public ID***Description**

Gets the Numerai Public ID

**Usage**

```
get_public_id()
```

**Value**

Your Numerai Public ID, if set

**Examples**

```
## Not run:  
get_public_id()  
  
## End(Not run)
```

---

list_datasets	<i>List of available data files</i>
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---

**Description**

List of available data files

**Usage**

```
list_datasets(round_num = NA)
```

**Arguments**

round\_num      Tournament round you are interested in, defaults to the current round.

**Value**

list of filenames

**Examples**

```
## Not run:  
list_datasets(round_num=328)  
  
## End(Not run)
```

---

round_model_performances	<i>Fetch round model performance of any user</i>
--------------------------	--

---

**Description**

Fetch round model performance of any user

**Usage**

```
round_model_performances(username, tournament = 8)
```

**Arguments**

username      User Name  
tournament      Tournament ID, 8 for Main, 11 for Signal

**Value**

list of round model performance entries

**Examples**

```
## Not run:
round_model_performances(username = "bayo")

## End(Not run)
```

**run\_query***Run a custom query***Description**

Run a custom query

**Usage**

```
run_query(query, auth = TRUE)
```

**Arguments**

query	Query to pass as a string
auth	Whether the query need authorisation to run

**Value**

Parsed result from custom query

**Examples**

```
## Not run:
run_query(query = 'query{account{username }}', auth=TRUE)

## End(Not run)
```

**set\_api\_key***Sets the Numerai API key***Description**

Sets the Numerai API key

**Usage**

```
set_api_key(key)
```

**Arguments**

key	The Numerai API key
-----	---------------------

**Value**

A boolean TRUE if the key was successfully set

**Examples**

```
## Not run:  
set_api_key("abcdefghijklmноп")  
  
## End(Not run)
```

---

set_bio	<i>Set bio field for a model id</i>
---------	-------------------------------------

---

**Description**

Set bio field for a model id

**Usage**

```
set_bio(model_id, bio)
```

**Arguments**

model_id	Target model UUID
bio	Bio to change

**Value**

If the bio was changed successfully

**Examples**

```
## Not run:  
set_bio(model_id = get_models()[[{"bayo"}]], bio = "This Model Rocks")  
  
## End(Not run)
```

**set\_link**                   *Set link field for a model id*

### Description

Set link field for a model id

### Usage

```
set_link(model_id, link, link_text)
```

### Arguments

model_id	Target model UUID
link	URL
link_text	URL Text

### Value

If the link was changed successfully

### Examples

```
## Not run:
set_link(model_id = get_models()[[["bayo"]]], link = "https://www.google.com", link_text = "Google")
## End(Not run)
```

**set\_public\_id**                   *Sets the Numerai Public ID*

### Description

Sets the Numerai Public ID

### Usage

```
set_public_id(id)
```

### Arguments

id	The Numerai Public ID
----	-----------------------

### Value

A boolean TRUE if the ID was successfully set

### Examples

```
## Not run:
set_public_id("abcdefghijklmnp")

## End(Not run)
```

set_stake_type	<i>Change stake type by model</i>
----------------	-----------------------------------

### Description

Change stake type by model

### Usage

```
set_stake_type(
  model_id,
  corr_multiplier = 0,
  tc_multiplier = 0,
  take_profit = FALSE,
  tournament = 8
)
```

### Arguments

model_id	Target model UUID
corr_multiplier	Multiplier of correlation for returns (Integer)
tc_multiplier	Multiplier of TC for returns (Numeric)
take_profit	TRUE/FALSE Determines whether payouts are returned to user wallet or automatically staked to next round.
tournament	Tournament ID, 8 for Main, 11 for Signal

### Value

Confirmation that payout selection has been updated

### Examples

```
## Not run:
set_stake_type(model_id = get_models()[["bayo"]], corr_multiplier=1, tc_multiplier=3, tournament=8)

## End(Not run)
```

**set\_submission\_webhook***Set a model's submission webhook used in Numerai Compute*

---

**Description**

Set a model's submission webhook used in Numerai Compute

**Usage**

```
set_submission_webhook(model_id, webhook)
```

**Arguments**

model_id	Target model UUID
webhook	The compute webhook to trigger this model

**Value**

Confirmation that your webhook has been set

**Examples**

```
## Not run:  
set_submission_webhook(model_id = get_models()[[ "bayo" ]], webhook = "...")  
  
## End(Not run)
```

---

**stake\_change***Change stake by ‘value’ NMR*

---

**Description**

Change stake by ‘value’ NMR

**Usage**

```
stake_change(nmr, action = "decrease", model_id, tournament = 8)
```

**Arguments**

nmr	amount of NMR you want to increase/decrease
action	‘increase’ or ‘decrease’
model_id	Target model UUID
tournament	Tournament ID, 8 for Main, 11 for Signal

**Value**

Stake change information

**Examples**

```
## Not run:  
stake_change(nmr=10,action="decrease",model_id = get_models()[[["bayo"]]],tournament=8)  
  
## End(Not run)
```

---

submission_status	<i>Submission status of the last submission associated with the account</i>
-------------------	---

---

**Description**

Submission status of the last submission associated with the account

**Usage**

```
submission_status(model_id, tournament = 8)
```

**Arguments**

model_id	Target model UUID
tournament	Tournament ID, 8 for Main, 11 for Signal

**Value**

Submission status and stats

**Examples**

```
## Not run:  
model_id = get_models()[[["bayo"]]]  
submission_status(model_id = model_id,tournament=8)  
  
## End(Not run)
```

ticker_universe	<i>Fetch universe of accepted tickers</i>
-----------------	---

### Description

Fetch universe of accepted tickers

### Usage

```
ticker_universe()
```

### Value

List of currently accepted tickers

### Examples

```
## Not run:  
ticker_universe()  
  
## End(Not run)
```

upload_diagnostics	<i>Upload predictions to diagnostics from file.</i>
--------------------	---

### Description

Upload predictions to diagnostics from file.

### Usage

```
upload_diagnostics(file_path = NA, model_id, df = NA, tournament = 8)
```

### Arguments

file_path	CSV file with predictions that will get uploaded
model_id	Target model UUID (required for accounts with multiple models)
df	DataFrame to upload, if given both df and file_path, df will be uploaded.
tournament	Tournament ID, 8 for Main, 11 for Signal

### Value

diagnostics\_id

## Examples

```
## Not run:  
upload_diagnostics(file_path = "prediction.csv",model_id = get_models()[["bayo"]])  
  
## End(Not run)
```

---

upload\_predictions     *Upload predictions from file.*

---

## Description

Upload predictions from file.

## Usage

```
upload_predictions(file_path = NA, model_id, df = NA, tournament = 8)
```

## Arguments

file_path	CSV file with predictions that will get uploaded
model_id	Target model UUID (required for accounts with multiple models)
df	DataFrame to upload, if given both df and file_path, df will be uploaded.
tournament	Tournament ID, 8 for Main, 11 for Signal

## Value

submission\_id

## Examples

```
## Not run:  
upload_predictions(file_path = "prediction.csv",model_id = get_models()[["bayo"]])  
  
## End(Not run)
```

---

wallet\_transactions     *Get all transactions in your wallet.*

---

**Description**

Get all transactions in your wallet.

**Usage**

```
wallet_transactions()
```

**Value**

Wallet Tx Data Frame

**Examples**

```
## Not run:  
wallet_transactions()  
  
## End(Not run)
```

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