

PyGCE

API Documentation

April 17, 2017

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1 Package pygce

1.1 Modules

- **analysis** (*Section 2, p. 4*)
 - **cli** (*Section 3, p. 5*)
 - **models** (*Section 4, p. 6*)
- **cli** (*Section 5, p. 12*)
- **models** (*Section 6, p. 14*)
 - **bot** (*Section 7, p. 15*)
 - **garmin** (*Section 8, p. 18*)
 - * **activities** (*Section 9, p. 19*)
 - * **timeline** (*Section 10, p. 20*)
 - * **utils** (*Section 11, p. 33*)

1.2 Variables

Name	Description
<code>__package__</code>	Value: None

2 Package `pygce.analysis`

2.1 Modules

- `cli` (Section 3, p. 5)
- `models` (Section 4, p. 6)

2.2 Variables

Name	Description
<code>--package--</code>	Value: None

3 Module *pygce.analysis.cli*

3.1 Functions

create_args()

:return: ArgumentParser
Parser that handles cmd arguments.

parse_args(*parser*)

:param parser: ArgumentParser
Object that holds cmd arguments.
:return: tuple
Values of arguments.

check_args(*folder_path*)

:param folder_path: str
Path to folder with data files to analyse

main()

4 Module *pygce.analysis.models*

4.1 Class *GarminDataFilter*

object 
pygce.analysis.models.GarminDataFilter

Parses and fixes raw data

4.1.1 Methods

__init__(self, dataset_file)

:param dataset_file: str
 Path to folder with data to analyse
 Overrides: object.__init__

parse_csv(self)

:return: tuple [], [] of []
 Headers of csv file and data

convert_time_columns(headers, headers_to_convert, data)

:param headers: [] of str
 Column names of data
:param headers_to_convert: [] of str
 Column names of data to convert from time format to float
:param data: [] of []
 Raw data
:return: [] of []
 Input data but with converted time columns

fix_floats(headers, headers_to_fix, data)

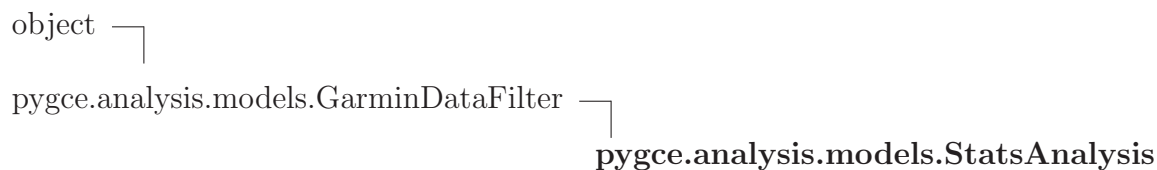
:param headers: [] of str
 Column names of data
:param headers_to_fix: [] of str
 Column names of data to fix the float format
:param data: [] of []
 Raw data
:return: [] of []
 Input data but with fixed floats in columns

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__hash__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__repr__()`, `__setattr__()`, `__sizeof__()`, `__str__()`, `__subclasshook__()`

4.1.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

4.2 Class StatsAnalysis

Computes correlation of data

4.2.1 Methods

<code>__init__(self, dataset_file)</code> <hr/> <p><code>:param dataset_file: str</code> Path to folder with data to analyse</p> <p>Overrides: <code>object.__init__</code></p>
<code>show_correlation_matrix(self, title_image, headers_to_analyze)</code> <hr/> <p><code>:param title_image: str</code> Title of output image</p> <p><code>:param headers_to_analyze: [] of str</code> Compute correlation matrix of only these headers</p> <p><code>:return: void</code> Shows correlation matrix of data of files in folder</p>

Inherited from `pygce.analysis.models.GarminDataFilter` (Section 4.1)

`convert_time_columns()`, `fix_floats()`, `parse_csv()`

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__hash__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`,
`__repr__()`, `__setattr__()`, `__sizeof__()`, `__str__()`, `__subclasshook__()`

4.2.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

4.3 Class TimelineDataAnalysis

object └

pygce.analysis.models.GarminDataFilter └

pygce.analysis.models.StatsAnalysis └

pygce.analysis.models.TimelineDataAnalysis

Machine-learn timeline data

4.3.1 Methods

<code>__init__(self, dataset_file)</code>
<pre>:param dataset_file: str Path to folder with data to analyse Overrides: object.__init__</pre>
<code>parse_csv(self)</code>
<pre>:return: tuple [], [] of [] Headers of csv file and data Overrides: pygce.analysis.models.GarminDataFilter.parse_csv</pre>


```
show_correlation_matrix_of_data(self)
```

```
:return: void
        Shows correlation matrix of data of files in folder
```

```
predict_feature(self, feature)
```

```
:param feature: str
        Name of feature (column name) to predict
:return: TODO
        TODO
```

```
cluster_analyze(self)
```

```
:return: void
        Computes cluster analysis: see days based on differences.
        Each day is different from one another, there are days where you trained more, c
        The goal is to divide your days into categories (e.g highly-active, active ...)
```

```
show_bar_chart(title, x_labels, y_values, y_label)
```

```
:param title: str
        Title of chart
:param x_labels: [] of str
        Names for each variable
:param y_values: [] of float
        Values of x labels
:param y_label: str
        Label of y axis
:return: void
        Show bar chart
```

Inherited from `pygce.analysis.models.StatsAnalysis` (Section 4.2)

```
show_correlation_matrix()
```

Inherited from `pygce.analysis.models.GarminDataFilter` (Section 4.1)

```
convert_time_columns(), fix_floats()
```

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__hash__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`,
`__repr__()`, `__setattr__()`, `__sizeof__()`, `__str__()`, `__subclasshook__()`

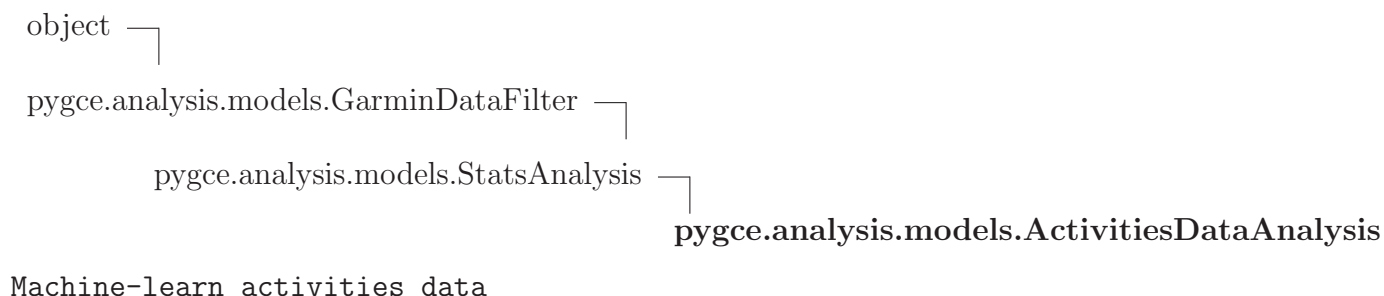
4.3.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

4.3.3 Class Variables

Name	Description
HEADERS_TO_ANALYZE	Value: ["SUMMARY:kcal_count", "STEPS:distance", "SLEEP:light_sle..."]
TIME_HEADERS_TO_CONVERT	Value: ["SLEEP:nap_time", "SLEEP:light_sleep_time", "SLEEP:awake..."]

4.4 Class ActivitiesDataAnalysis



4.4.1 Methods

<code>__init__(self, dataset_file)</code>
:param dataset_file: str Path to folder with data to analyse
Overrides: <code>object.__init__</code>

parse_csv(*self*)

:return: tuple [], [] of []
 Headers of csv file and data

Overrides: *pygce.analysis.models.GarminDataFilter.parse_csv*

shows_correlation_matrix_of_data(*self*)

:return: void
 Shows correlation matrix of data of files in folder

*Inherited from *pygce.analysis.models.StatsAnalysis*(Section 4.2)*

show_correlation_matrix()

*Inherited from *pygce.analysis.models.GarminDataFilter*(Section 4.1)*

convert_time_columns(), fix_floats()

Inherited from object

*__delattr__(), __format__(), __getattr__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(),
 __repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()*

4.4.2 Properties

Name	Description
<i>Inherited from object</i>	
<i>__class__</i>	

4.4.3 Class Variables

Name	Description
HEADERS_TO_ANALYZE	Value: ["Distance", "Time", "Avg Speed(Avg Pace)", "Max Speed(Be...
TIME_HEADERS_TO_CONVERT	Value: ["Time", "Avg Speed(Avg Pace)", "Max Speed(Best Pace)"]
HEADERS_WITH_MALFORMED_FLOATS	Value: ["Distance", "Training Effect"]

5 Module *pygce.cli*

5.1 Functions

parse_yyyy_mm_dd(*d*)

```
:param d: str
    Date in the form yyyy-mm-dd to parse
:return: datetime
    Date parsed
```

create_args()

```
:return: ArgumentParser
    Parser that handles cmd arguments.
```

parse_args(*parser*)

```
:param parser: ArgumentParser
    Object that holds cmd arguments.
:return: tuple
    Values of arguments.
```

```
check_args(user, password, chromedriver, days, format_out, path_out)
```

```
:param user: str
    User to use
:param password: str
    Password to use
:param chromedriver: str
    Path to chromedriver to use
:param days: [] of datetime.date
    Days to save
:param format_out: str
    Format of output file (json, csv)
:param path_out: str
    File to use as output
:return: bool
    True iff args are correct
```

```
main()
```

5.2 Variables

Name	Description
AVAILABLE_OUTPUT_FORMATS	Value: ["json", "csv"]

6 Package `pygce.models`

6.1 Modules

- `bot` (*Section 7, p. 15*)
- `garmin` (*Section 8, p. 18*)
 - `activities` (*Section 9, p. 19*)
 - `timeline` (*Section 10, p. 20*)
 - `utils` (*Section 11, p. 33*)

6.2 Variables

Name	Description
<code>--package--</code>	Value: <code>None</code>

7 Module `pygce.models.bot`

7.1 Class `GarminConnectBot`

object —
 `pygce.models.bot.GarminConnectBot`

Navigate through Garmin Connect app via a bot

7.1.1 Methods

```
__init__(self, user_name, password, chromedriver_path)
```

```
:param user_name: str
    Username (email) to login to Garmin Connect
:param password: str
    Password to login to Garmin Connect
:param chromedriver_path: str
    Path to Chrome driver to use as browser
Overrides: object.__init__
```

```
login(self)
```

```
:return: bool
    True iff correctly logged in
```

```
get_user_id(self)
```

```
:return: void
    Retrieves user unique id and token
```

```
go_to_dashboard(self)
```

```
:return: void
    Navigates to user homepage
```

go_to_day(*self*, *date_time*)

:param *date_time*: datetime
 Datetime object with date
:return: void
 Navigates to daily summary of given date

get_day(*self*, *date_time*)

:param *date_time*: datetime
 Datetime object with date
:return: GCDayTimeline
 Data about day

get_days(*self*, *min_date_time*, *max_date_time*)

:param *min_date_time*: datetime
 Datetime object with date, this is the date when to start downloading data
:param *max_date_time*: datetime
 Datetime object with date, this is the date when to stop downloading data
:return: [] of GCDayTimeline
 List of data about days

save_json_days(*self*, *min_date_time*, *max_date_time*, *output_file*)

:param *min_date_time*: datetime
 Datetime object with date, this is the date when to start downloading data
:param *max_date_time*: datetime
 Datetime object with date, this is the date when to stop downloading data
:param *output_file*: str
 Path where to save output to
:return: void
 Retrieves data about days in given range, then saves json dump


```

save_csv_days(self, min_date_time, max_date_time, output_file)

:param min_date_time: datetime
    Datetime object with date, this is the date when to start downloading data
:param max_date_time: datetime
    Datetime object with date, this is the date when to stop downloading data
:param output_file: str
    Path where to save output to
:return: void
    Retrieves data about days in given range, then saves csv dump

```

Inherited from object

```

__delattr__(), __format__(), __getattr__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(),
__repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

```

7.1.2 Properties

Name	Description
<i>Inherited from object</i>	
__class__	

7.1.3 Class Variables

Name	Description
USER_DASHBOARD	Value: "https://connect.garmin.com/modern/"
LOGIN_URL	Value: "https://sso.garmin.com/sso/login?service=https%3A%2F%2Fc."
LOGIN_BUTTON_ID	Value: "login-btn-signin"
USERNAME_FIELD_NAME	Value: "username"
PASSWORD_FIELD_NAME	Value: "password"
BROWSER_WAIT_TIME_OUT_SECONDS	Value: 5

8 Package `pygce.models.garmin`

8.1 Modules

- **activities** (*Section 9, p. 19*)
- **timeline** (*Section 10, p. 20*)
- **utils** (*Section 11, p. 33*)

8.2 Variables

Name	Description
<code>--package--</code>	Value: None

9 Module `pygce.models.garmin.activities`

9.1 Variables

Name	Description
<code>--package--</code>	Value: None

10 Module `pygce.models.garmin.timeline`

10.1 Variables

Name	Description
<code>__package__</code>	Value: <code>'pygce.models.garmin'</code>

10.2 Class `GCDaySection`

object └─ `pygce.models.garmin.timeline.GCDaySection`

Known Subclasses: `pygce.models.garmin.timeline.GCDayActivities`, `pygce.models.garmin.timeline.GCDaySleep`, `pygce.models.garmin.timeline.GCDaySteps`, `pygce.models.garmin.timeline.GCDaySection`

Standard section in the Garmin Connect timeline of day.

10.2.1 Methods

```
__init__(self, raw_html, tag='')
```

```
:param raw_html: str
```

```
    HTML source snippet with information about section
```

```
:param tag: str
```

```
    Unique str in order not to mistake this GCDaySection with another one
```

```
Overrides: object.__init__
```

```
parse(self)
```

```
:return: void
```

```
    Parses raw html source and tries to finds all information
```

```
to_dict(self)
```

```
:return: dict
    Dictionary with keys (obj fields) and values (obj values)
```

```
to_json(self)
```

```
:return: json object
    A json representation of this object
```

```
to_csv_dict(self)
```

```
:return: {}
    Like self.to_json() but with a unique str before each key to spot against differ
```

Inherited from object

```
__delattr__(), __format__(), __getattr__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(),
__repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()
```

10.2.2 Properties

Name	Description
<i>Inherited from object</i>	
__class__	

10.3 Class GCDaySummary

object └

pygce.models.garmin.timeline.GCDaySection └

pygce.models.garmin.timeline.GCDaySummary

Standard activity in the Garmin Connect timeline of day.
Common features are likes, comment, kcal

10.3.1 Methods

`__init__(self, raw_html)`

:param raw_html: str
HTML source snippet with information about section
Overrides: object.__init__

`parse(self)`

:return: void
Parses raw html source and tries to finds all information
Overrides: *pygce.models.garmin.timeline.GCDaySection.parse* extit(inherited documentation)

`parse_likes(self)`

:return: void
Finds likes count and stores value

`parse_comment(self)`

:return: void
Finds comment value and stores value

`parse_kcal_count(self)`

:return: void
Finds kcal value and stores value

`to_dict(self)`

:return: dict
Dictionary with keys (obj fields) and values (obj values)
Overrides: *pygce.models.garmin.timeline.GCDaySection.to_dict* extit(inherited documentation)

Inherited from pygce.models.garmin.timeline.GCDaySection(Section 10.2)

to_csv_dict(), to_json()

Inherited from object

__delattr__(), __format__(), __getattr__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(),
__repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

10.3.2 Properties

Name	Description
<i>Inherited from object</i>	
__class__	

10.4 Class GCDaySteps

object └

pygce.models.garmin.timeline.GCDaySection └
pygce.models.garmin.timeline.GCDaySteps

Standard activity in the Garmin Connect timeline of day.
Common features are total, goal, distance, avg daily

10.4.1 Methods

__init__ (<i>self</i> , <i>raw_html</i>)
:param raw_html: str HTML source snippet with information about section
Overrides: object.__init__

parse(*self*)

:return: void

Parses raw html source and tries to finds all information

Overrides: pygce.models.garmin.timeline.GCDaySection.parse extit(inherited documentation)

parse_steps_count(*self*)

:return: void

Parses HTML source and finds goal and daily steps

parse_steps_stats(*self*)

:return: void

Parses HTML source and finds daily distance and avg daily steps

to_dict(*self*)

:return: dict

Dictionary with keys (obj fields) and values (obj values)

Overrides: pygce.models.garmin.timeline.GCDaySection.to_dict extit(inherited documentation)

Inherited from pygce.models.garmin.timeline.GCDaySection(Section 10.2)

to_csv_dict(), to_json()

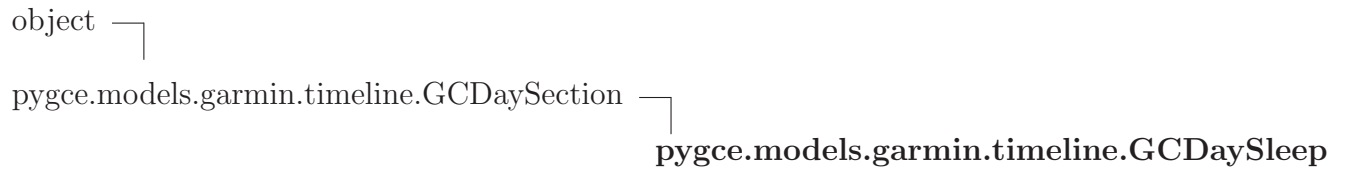
Inherited from object

__delattr__(), __format__(), __getattr__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(),
__repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()

10.4.2 Properties

Name	Description
<i>Inherited from object</i>	
__class__	

10.5 Class GCDaySleep



Standard activity in the Garmin Connect timeline of day.
Common features are total, deep total, light total, awake total

10.5.1 Methods

`__init__(self, raw_html)`

:param raw_html: str
HTML source snippet with information about section
Overrides: object.__init__

`parse(self)`

:return: void
Parses raw html source and tries to finds all information
Overrides: *pygce.models.garmin.timeline.GCDaySection.parse* extit(inherited documentation)

`parse_sleep_totals(self)`

:return: void
Finds value of night/nap/total sleep times

`parse_bed_time(self)`

:return: void
Finds hour start/end sleep

```
parse_sleep_times(self)
```

```
:return: void
    Finds deep/light/awake sleep times
```

```
to_dict(self)
```

```
:return: dict
    Dictionary with keys (obj fields) and values (obj values)
Overrides: pygce.models.garmin.timeline.GCDaySection.to_dict extit(inherited
documentation)
```

Inherited from pygce.models.garmin.timeline.GCDaySection(Section 10.2)

```
to_csv_dict(), to_json()
```

Inherited from object

```
__delattr__(), __format__(), __getattr__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(),
__repr__(), __setattr__(), __sizeof__(), __str__(), __subclasshook__()
```

10.5.2 Properties

Name	Description
<i>Inherited from object</i>	
__class__	

10.6 Class GCDayActivities

```
object └─
```

```
pygce.models.garmin.timeline.GCDaySection └─
                                           pygce.models.garmin.timeline.GCDayActivities
```

Standard activity in the Garmin Connect timeline of day.
Common features are kcal, time, distance, type, name, link

10.6.1 Methods

`__init__(self, raw_html)`

:param raw_html: str
HTML source snippet with information about section
Overrides: object.__init__

`parse(self)`

:return: void
Parses raw html source and tries to finds all information
Overrides: *pygce.models.garmin.timeline.GCDaySection.parse* extit(inherited documentation)

`parse_activity(raw_html)`

:param raw_html: str html code
Raw HTML code of row of table containing activity to parse
:return: dict
Dict with values of activity

`to_dict(self)`

:return: dict
Dictionary with keys (obj fields) and values (obj values)
Overrides: *pygce.models.garmin.timeline.GCDaySection.to_dict* extit(inherited documentation)

`to_json(self)`

:return: json object
A json representation of this object
Overrides: *pygce.models.garmin.timeline.GCDaySection.to_json* extit(inherited documentation)

to_csv_dict(*self*)

:return: {}

Like super.to_csv_dict() but with totals instead

Overrides: pygce.models.garmin.timeline.GCDaySection.to_csv_dict

get_total_kcal(*self*)

:return: float

Total kcal of all activities

get_total_duration(*self*)

:return: timedelta

Total duration of all activities

get_total_distance(*self*)

:return: float

Total distance of all activities

get_totals_dict(*self*)

:return: {}

Self dict but with totals instead (total kcal, total distance ...)

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__hash__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`, `__repr__()`, `__setattr__()`, `__sizeof__()`, `__str__()`, `__subclasshook__()`

10.6.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

10.7 Class *GCDayBreakdown*



Standard activity in the Garmin Connect timeline of day.

Common features are highly active %, active %, sedentary %, sleep %

10.7.1 Methods

```
__init__(self, raw_html)
```

```
:param raw_html: str
    HTML source snippet with information about section
Overrides: object.__init__
```

```
parse(self)
```

```
:return: void
    Parses raw html source and tries to finds all information
Overrides: pygce.models.garmin.timeline.GCDaySection.parse extit(inherited
documentation)
```

```
to_dict(self)
```

```
:return: dict
    Dictionary with keys (obj fields) and values (obj values)
Overrides: pygce.models.garmin.timeline.GCDaySection.to_dict extit(inherited
documentation)
```

*Inherited from *pygce.models.garmin.timeline.GCDaySection* (Section 10.2)*

```
to_csv_dict(), to_json()
```

*Inherited from *object**

```
__delattr__(), __format__(), __getattr__(), __hash__(), __new__(), __reduce__(), __reduce_ex__(),
```

`__repr__()`, `__setattr__()`, `__sizeof__()`, `__str__()`, `__subclasshook__()`

10.7.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

10.8 Class `GCDayTimeline`



Standard Garmin Connect timeline of day as in webpage.

Each standard day consists of different sections:

- summary (day, likes, comment, kcal)
- steps (total, goal, distance, avg daily)
- sleep (total, deep total, light total, awake total)
- activities (for each one: kcal, time, distance, type, name, link)
- breakdown (highly active %, active %, sedentary %, sleep %)

10.8.1 Methods

```
__init__(self, date_time, summary_html, steps_section_html, sleep_section_html,
activities_section_html, breakdown_section_html)
```

```
:param date_time: datetime
    Datetime of day
:param summary_html: str
    HTML source snippet with information about the day
:param steps_section_html: str
    HTML source snippet with information about daily steps
:param sleep_section_html: str
    HTML source snippet with information about daily sleep
:param activities_section_html: str
    HTML source snippet with information about daily activities
:param breakdown_section_html: str
    HTML source snippet with information about daily breakdown
Overrides: object.__init__
```

```
parse(self)
```

```
:return: void
    Finds all sections to parse, then builds corresponding objects and parses everyt
```

```
__getattr__(self, item)
```

```
to_dict(self)
```

```
:return: dict
    Dictionary with keys (obj fields) and values (obj values)
```

```
to_csv_dict(self)
```

```
:return: {}
    Like self.to_dict() but with a set with keys and values NOT nested. Also for act
```

to_json(<i>self</i>)
:return: json object A json representation of this object

Inherited from object

`__delattr__()`, `__format__()`, `__getattr__()`, `__hash__()`, `__new__()`, `__reduce__()`, `__reduce_ex__()`,
`__repr__()`, `__setattr__()`, `__sizeof__()`, `__str__()`, `__subclasshook__()`

10.8.2 Properties

Name	Description
<i>Inherited from object</i>	
<code>__class__</code>	

11 Module `pygce.models.garmin.utils`

11.1 Functions

`parse_num(n)`

```
:param n: str
    Number to parse
:return: float
    Parses numbers written like 123,949.99
```

`parse_hh_mm_ss(h)`

```
:param h: str
    Hours, minutes and seconds in the form hh:mm:ss to parse
:return: datetime.time
    Time parsed
```

`get_seconds(s)`

```
:param s: str
    Datetime in the form %H:%M:%S
:return: int
    Seconds in time
```

`parse_hh_mm(h)`

```
:param h: str
    Hours and minutes in the form hh:mm to parse
:return: datetime.time
    Time parsed
```

11.2 Variables

Name	Description
GARMIN_CONNECT_URL	Value: <code>'https://connect.garmin.com'</code>

continued on next page

Name	Description
GARMIN_CONNECT_ACTIVITIES_URL	Value: 'https://connect.garmin.com/modern/activities'
__package__	Value: 'pygce.models.garmin'

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