
scorecard

Ahadu Kebede

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A python library for collegescorecard.ed.gov

Contents:

INSTALLATION

The best way to install the library is by using pip.

```
pip install college-scorecard
```

You can also install by cloning the repository from git.

```
git clone https://github.com/ahoodatheguy/scorecard.git
```

Or install the repository directly from Github.

```
pip install git+https://github.com/ahoodatheguy/scorecard.git
```


GETTING STARTED

Learn how to use scorecard.

2.1 API Access

An API key is required to use the college scorecard API. You can apply for one for free [here](#).

2.2 Starter Code

```
from scorecard.api import ScoreCard

sc = ScoreCard(api_key)

for college in sc.search('Howard'):
    print(str(college))
```

This example will search for and return the name of every college with the name “Howard” in it and return it’s name and id.

If you know a specific colleges id, you can query that one specifically.

```
from scorecard.api import ScoreCard

sc = ScoreCard(api_key)

print(sc.get_by_id(131520))
```

Module Reference:

SCORECARD

3.1 api module

Interface with the collegescorecard API.

class `api.ScoreCard(API_KEY: str)`

Bases: `object`

This is the main class used to search for colleges and their data.

Parameters

API_KEY – The API key used to interact with college scorecards API.

get_by_id(*id: int, year='latest'*) → `College`

Query a college by it's id.

Parameters

- **id** – The id of the college you want to search.
- **year** (*str, optional*) – What year to retrieve the data from, defaults to latest available year.

search(*name: Optional[str] = None, page=0, per_page=20, year='latest', hbcu: Optional[bool] = None, size_range: list = [0, None], ownership: Optional[int] = None*) → `List[College]`

Search for a college by name.

Parameters

- **name** (*str, optional*) – The name of the target college
- **page** (*int, optional*) – What page to query the data from
- **per_page** (*int, optional*) – How many results to show per page, defaults to 20
- **year** (*str, optional*) – What year to retrieve the data from, defaults to latest available year
- **hbcu** (*bool, optional*) – Filter results by whether or not it's an HBCU
- **size_range** (*list, optional*) – Limit results based on student population. List is structured as [min, max]
- **ownership** (*int, optional*) – Filter based on the ownership status of the college

3.2 exceptions module

exception exceptions.InvalidAPIKey(*message='Attempt to connect to collegescorecard with an invalid API key'*)

Bases: Exception

exception exceptions.MissingAPIKey(*message='Attempt to connect to collegescorecard with no API key'*)

Bases: Exception

3.3 objects module

class objects.Admissions(*data*)

Bases: object

Data relating to a colleges admissions

property act_scores: Dict[str, int]

Midpoint of the ACT scores

property rate: float

Admission rate

property sat_scores: Dict[str, int]

Midpoint of SAT scores at the institution

property test_required: bool

Test score requirements for admission

class objects.College(*data: dict, year: str*)

Bases: object

property accreditor: str

Accreditor for institution

property admissions: Admissions

property cost: Tuition

property endowment_begin: int

Value of school's endowment at the beginning of the fiscal year

property endowment_end: int

Value of school's endowment at the end of the fiscal year

property location: dict

Return the state and city of the college.

property name: str

Institution name

property operating: bool

Flag for currently operating institution

property ownership: int

Control of institution, returns either 1, 2, or 3.

1 - Public

2 - Private, Nonprofit

3 - Private, for-profit

property region: int

Return the colleges region code.

property student: *StudentBody*

class objects.StudentBody(*data*)

Bases: object

property gender_breakdown: Dict[str, float]

Return the gender breakdown of a college.

property graduate_size: int

Number of graduate students

property racial_diversity: Dict[str, float]

Racial diversity statistics, rounded to 2 decimal places.

property undergrad_size: int

Enrollment of undergraduate certificate/degree-seeking students

class objects.Tuition(*data: dict*)

Bases: object

property booksupply: int

Cost of attendance: estimated books and supplies

get_tuition(*in_state=True*) → int

Average cost of a year at the college.

Parameters

in_state (*bool, optional*) – Return a colleges in-state tuition or out of state tuition, defaults to true.

property overall_median: int

Overall median for average net price

property room_and_board: float

Cost of attendance: on-campus room and board

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