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# **enade-py Documentation**

*Release unknown*

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This is the documentation of **enade-py**.



# CHAPTER 1

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## Description

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*enade-py* comprises a set of functions for helping researchers and Educational Data Mining (EDM) enthusiasts through the data mining process using Enade microdata.

The Enade microdata datasets are provided by [Inep](#) and consist of informations from brazilian undergraduate students and their performance on Enade (a national exam taken at the end of the course).





## 2.1 License

The MIT License (MIT)

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## 2.2 Contributors

- M. Choji <[mchoji@users.noreply.github.com](mailto:mchoji@users.noreply.github.com)>

## 2.3 Changelog

### 2.3.1 Current Version

Version 0.1.0, 2020-10-12

- First release

## 2.4 enadepy

### 2.4.1 enadepy package

#### Submodules

#### enadepy.frequent module

#### enadepy.helpers module

A set of helpers for all Enade microdata data mining stages.

`enadepy.helpers.list_cols_disc_status` (*exclude: List[str] = None*) → List[str]

Returns situation types from discursive questions.

Returns variable names related to the situation types from questions in the discursive part of the exam.

##### Parameters

- **exclude** (*List[str], optional*) – list of variables to exclude from
- **output. Defaults to None.** (*the*) –

**Returns** The variable names, excluding the ones passed as argument.

**Return type** List[str]

`enadepy.helpers.list_cols_exam` (*exclude: List[str] = None*) → List[str]

Returns variable names related to the exam.

##### Parameters

- **exclude** (*List[str], optional*) – list of variables to exclude from
- **output. Defaults to None.** (*the*) –

**Returns** The variable names related to the exam, excluding the ones passed as argument.

**Return type** List[str]

`enadepy.helpers.list_cols_exam_eval` (*exclude: List[str] = None*) → List[str]

Returns columns related to the perception about the exam.

Returns variable names related to the perception of the student about the exam.

##### Parameters

- **exclude** (*List[str], optional*) – list of variables to exclude from
- **output. Defaults to None.** (*the*) –

**Returns** The variable names, excluding the ones passed as argument.

**Return type** List[str]

`enadepy.helpers.list_cols_grades` (*exclude: List[str] = None*) → List[str]

Returns variable names related to the grades.

##### Parameters

- **exclude** (*List[str], optional*) – list of variables to exclude from
- **output. Defaults to None.** (*the*) –

**Returns** The variable names related to the grades, excluding the ones passed as argument.

**Return type** List[str]

`enadepy.helpers.list_cols_inst_eval(exclude: List[str] = None) → List[str]`

Returns variable names related to institution evaluation.

**Parameters**

- **exclude** (*List[str], optional*) – list of variables to exclude from
- **output. Defaults to None.** (*the*) –

**Returns** The variable names related to institution evaluation, excluding the ones passed as argument.

**Return type** List[str]

`enadepy.helpers.list_cols_institution(exclude: List[str] = None) → List[str]`

Returns variable names related to the institution.

**Parameters**

- **exclude** (*List[str], optional*) – list of variables to exclude from
- **output. Defaults to None.** (*the*) –

**Returns** The variable names related to the institution, excluding the ones passed as argument.

**Return type** List[str]

`enadepy.helpers.list_cols_licentiate(exclude: List[str] = None) → List[str]`

Returns variable names related to licentiate courses.

**Parameters**

- **exclude** (*List[str], optional*) – list of variables to exclude from
- **output. Defaults to None.** (*the*) –

**Returns** The variable names related to licentiate courses, excluding the ones passed as argument.

**Return type** List[str]

`enadepy.helpers.list_cols_obj_info(exclude: List[str] = None) → List[str]`

Returns variable names related to the objective part of the exam.

**Parameters**

- **exclude** (*List[str], optional*) – list of variables to exclude from
- **output. Defaults to None.** (*the*) –

**Returns** The variable names related to the objective part of the exam, excluding the ones passed as argument.

**Return type** List[str]

`enadepy.helpers.list_cols_presence(exclude: List[str] = None) → List[str]`

Returns variable names related to types of presence.

**Parameters**

- **exclude** (*List[str], optional*) – list of variables to exclude from
- **output. Defaults to None.** (*the*) –

**Returns** The variable names related to types of presence, excluding the ones passed as argument.

**Return type** List[str]

`enadep.py.helpers.list_cols_socioecon(exclude: List[str] = None) → List[str]`

Returns variable names related to socioeconomics aspects.

**Parameters**

- **exclude** (List[str], optional) – list of variables to exclude from
- **output. Defaults to None.** (the) –

**Returns** The variable names related to socioeconomics aspects, excluding the ones passed as argument.

**Return type** List[str]

`enadep.py.helpers.list_cols_student(exclude: List[str] = None) → List[str]`

Returns variable names related to the student.

**Parameters**

- **exclude** (List[str], optional) – list of variables to exclude from
- **output. Defaults to None.** (the) –

**Returns** The variable names related to the student, excluding the ones passed as argument.

**Return type** List[str]

`enadep.py.helpers.list_cols_vectors(exclude: List[str] = None) → List[str]`

Returns variable names related to vectors.

Vectors, in this context, refer to the structures which contain the answers for the questions from the exam.

**Parameters**

- **exclude** (List[str], optional) – list of variables to exclude from
- **output. Defaults to None.** (the) –

**Returns** The variable names related to vectors, excluding the ones passed as argument.

**Return type** List[str]

## enadep.py.index module

A set of indexes that map identifiers to descriptions.

Each index in this module relates to a question or student/institution information (variable) in Enade microdata. Indexes are represented by dictionaries and should not be accessed directly.

`enadep.py.index.get_index_dict(varname: str) → Dict[KT, VT]`

Gets a map to translate indexes from a given variable.

Given a variable name (column name from Enade microdata), returns a dictionary containing the values seen in microdata as dictionary's keys and the respective descriptions as dictionary's values.

**Parameters** **varname** (str) – A variable or column name from Enade microdata.

**Raises** `NameError` – if a dictionary was not found for the given name.

**Returns** A dictionary mapping values to descriptions for a given variable or column name.

**Return type** Dict

**enadepy.loaders module**

**enadepy.transform module**

### **Module contents**

Provides functions to handle and analyse Enade microdata.



## CHAPTER 3

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### Indices and tables

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