

automatic Essay Grading and Pligarism check Models API ^{2.0.1} ^{OAS3}

/openapi.json

An API that use NLP models to return the plagiarism , grading result

default



GET

/ Read Root



read index (root) for testing purpose

Args: query (str): query string

Returns: str: "message": hi

Parameters

Try it out

No parameters

Responses

Code

Description

Links

Code**Description****Links**

200

Successful Response

No links

Media type

application/json

Controls Accept header.

Example Value Schema`"string"`**POST****/grading/predict** Predict Grad

Predict the grading result

Args

answers : dict[str,str] dict of student ids and their answers first element is the model answer second etc... elements are the students answers

Returns

Dict[str,float] dict of student ids and their grades

example

```
>>> predict_grad("essays_dict":
>>> {"7821": "ahmed is eating a pizza",
>>> "156": "i go to school by bus",
>>> "3": "i am eating a pizza",
>>> "4": "ahmed is eating a pizza"}
>>> "grading_model": "automatic_keywords_grading")
```

```
"grades": {
  "156": 0.028096482157707214,
  "3": 0.45442324082056684,
  "4": 0.9999998410542806
}
```

Parameters**Try it out**

No parameters

Request body required

application/json

Example Value Schema

```
{
  "essays_dict": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "grading_model": "siamese_ner_grading",
  "cased": false
}
```

Responses

Code	Description	Links
200	Successful Response	No links

Media type

application/json

Controls Accept header.

Example Value Schema

```
{
  "grades": {
    "additionalProp1": 0,
    "additionalProp2": 0,
    "additionalProp3": 0
  }
}
```

Code**Description****Links**

422

Validation Error

No links

Media type

application/json**Example Value** Schema

```
{
  "detail": [
    {
      "loc": [
        "string"
      ],
      "msg": "string",
      "type": "string"
    }
  ]
}
```

POST**/plagiarism/predict** Predict Plagiarism

Predict the pligarism result

Args

essays_dict : dict[str,str] dict of student ids and their answers

Returns

dict[str,dict[str,float]] dict of cheating studeetns ids and their probabilities of plagiarism with other students

example

```
predict_plagiarism('{1:"Hello World", 2:"Hello World", 3:"hi
there"},cased: False') [{1: {2: 0.98}, 2: {1: 0.98}}]
```

Parameters**Try it out**

No parameters

Request body **required****application/json****Example Value** Schema

```
{
  "essays_dict": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "cased": false
}
```

Responses

Code	Description	Links
200	<div>Successful Response</div> <div>Media type<div>application/json</div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "plagiarism_results": [{ "additionalProp1": { "additionalProp1": 0, "additionalProp2": 0, "additionalProp3": 0 }, "additionalProp2": { "additionalProp1": 0, "additionalProp2": 0, "additionalProp3": 0 }, "additionalProp3": { "additionalProp1": 0, "additionalProp2": 0, "additionalProp3": 0 } }]}</pre></div>	No links

422
Schemas

Validation Error

No links
^**ESSAYSDICT** {

description:

ESSAYSDICT input model validation

Args: BaseModel : inherit from pydantic BaseModel to validate the input

Attributes: essays_dict (dict): essays_dict contains dicts of the student's answers and their ids grading_model (str): grading_model grading model to use choose from ["siamese_ner_grading", "keywords_grading", "manual_keywords_grading"] cased (bool): cased strings grading or not

example: >>> "essays_dict": { >>> "1235dx": >>> "answer_1" >>> "24463dxcf": >>> "answer_2" >>> } >>> "grading_model": "keywords_grading" >>> "cased": False

essays_dict*

grading_model

cased

}

Essays Dict {...}

string

title: Grading Model

default: siamese_ner_grading

boolean

title: Cased

default: false

GradingResponse {

description:

StudentsDict output model validation it's a json string contains a List of Dictionaries of str [ids] : float [scores]

Args: BaseModel : inherit from pydantic BaseModel to validate the output

Attributes: grades ([Dict[str, float]]): scores contains a list of dicts of the student's grades and their ids

example: >>> "essays_dict": { >>> "1235dx": >>> "answer_1" >>> "24463dxcf": >>> "answer_2" >>> }

>>> "grades":

>>> {

>>> "7818ert": 1,

>>> "4581rdc": 0.5,

>>> }

grades*

Grades {...}

}

```

HTTPValidationError {
    detail
    Detail [...]
}

```

```

PlagiarismResponse {
    description:
        PlagiarismResponse output model validation it's a json string
        contains a List of Dictionaries of str [ids] : float [scores]

        Args: BaseModel : inherit from pydantic BaseModel to validate
        the output

        Attributes: List[ Dict[str, Dict[str,float]]] List of
        Dictionaries of str [ids] : float [scores]

        scores (List[Dict[str, float]]): scores
            contains a list of dicts of the student's answers
            and their ids

        example: >>> "plagiarism_results": [ >>> {"1235dx": 0.9,
        "24463dxcf": 0.8}, >>> {"1235dx": 0.8, "24463dxcf": 0.9} >>> ]

    plagiarism_results*
    Plagiarism Results [...]
}

```

```

StudentsDict {
    description:
        StudentsDict input model validation

        Args: BaseModel : inherit from pydantic BaseModel to validate
        the input

        Attributes: essays_dict (dict): essays_dict contains dicts of
        the student's answers and their ids cased (bool): cased strings
        grading or not

        example: >>> "essays_dict": { >>> "1235dx": >>> "answer_1" >>>
        "24463dxcf": >>> "answer_2" >>> } >>> "cased": False

    essays_dict*
    cased
    Essays Dict {...}
    boolean
    title: Cased
    default: false
}

```

```
ValidationError {  
  loc*  
  msg*  
  type*  
  Location [...]  
    string  
    title: Message  
    string  
    title: Error Type  
}
```