{···}

# Student Performance ML Prediction API
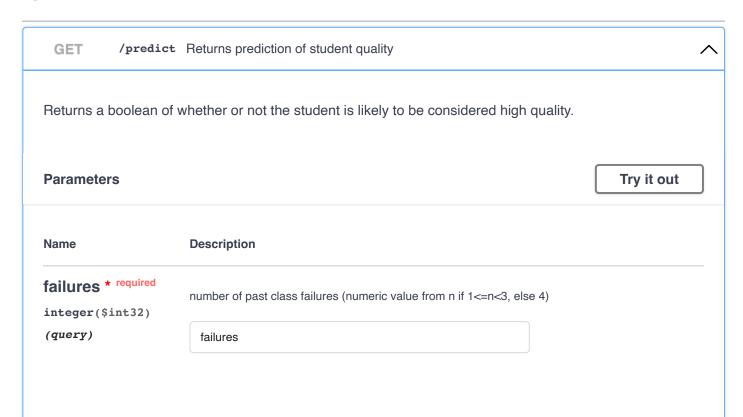
1.0.0    OAS3

This API can be used to predict whether or not a student described by a set of input features is a high quality student (by CMU admissions criteria) with high probability.

Uses a backend cached pretrained ML model trained on a set of student data.

**Servers**

https://127.0.0.5

## predict   Used to predict student quality    ∧

| GET   **/predict**   Returns prediction of student quality                    ∧

Returns a boolean of whether or not the student is likely to be considered high quality.

**Parameters**                                                      Try it out

| Name | Description |
| --- | --- |
| **failures** * required<br>integer($int32)<br>(query) | number of past class failures (numeric value from n if 1<=n<3, else 4)<br><br>failures |

| Name | Description |
|---|---|

### absences * required
`integer($int32)`
*(query)*

number of school absences (numerical value from 0 to 93)

> absences

### G1 * required
`integer($int32)`
*(query)*

first period grade (numeric value from 0 to 20)

> G1

### G2 * required
`integer($int32)`
*(query)*

second period grade (numeric value from 0 to 20)

> G2

## Responses

| Code | Description | Links |
|---|---|---|
| 200 | Success | *No links* |

Media type

**application/json**

Controls `Accept` header.

**Example Value**   Schema

```
{
  "high_quality": true
}
```

| | | |
|---|---|---|
| 400 | Malformed request | *No links* |
| 422 | Query values do not satisfy accepted data ranges | *No links* |

## Schemas                                                                                                        ⌃

**Predict** {

    high_quality      boolean

                      *example: true*

}