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# CMU Student Prediction

1.0.0 OAS3

This is a prediction server for predicting students on whether they are qualified candidates for CMU graduate schools.

[Apache 2.0](#)

## Servers

<http://localhost/> - Local host environment

## predict

Predicts graduate students for whether they're qualified to be admitted into CMU based on several attributes.



GET

**/predict** Finds qualified students based on predictions.

Returns a boolean indicated whether a student is qualified.

### Parameters

[Try it out](#)

Name

Description

**sex** \* required

Student's sex (binary:"F" - female or "M" - male)

string

Available values : F, M

(query)

Name	Description
<b>age</b> * required integer (query)	Student's age (numeric:from 15 to 22) <input type="text" value="age"/>
<b>address</b> * required string (query)	Student's home address (binary:"U" - urban or "R" - rural) Available values : U, R <input type="text" value="U"/>
<b>famsize</b> * required string (query)	Family size (binary:"LE3" - less or equal to 3 or "GT3" - greater than 3) Available values : LE3, GT3 <input type="text" value="LE3"/>
<b>Pstatus</b> * required string (query)	Parent's cohabitation status (binary:"T" - living together or "A" - apart) Available values : T, A <input type="text" value="T"/>
<b>Medu</b> * required integer (query)	Mother's education (numeric:0 - none, 1 - primary education (4th grade), 2 – 5th to 9th grade, 3 – secondary education or 4 – higher education) <input type="text" value="Medu"/>
<b>Fedu</b> * required integer (query)	Father's education (numeric:0 - none, 1 - primary education (4th grade), 2 – 5th to 9th grade, 3 – secondary education or 4 – higher education) <input type="text" value="Fedu"/>
<b>Mjob</b> * required string (query)	Mother's job (nominal:"teacher", "health" care related, civil "services" (e.g. administrative or police), "at_home" or "other") Available values : teacher, health, services, at_home, other <input type="text" value="teacher"/>
<b>Fjob</b> * required string (query)	Father's job (nominal:"teacher", "health" care related, civil "services" (e.g. administrative or police), "at_home" or "other") Available values : teacher, health, services, at_home, other <input type="text" value="teacher"/>

Name	Description
<b>reason</b> * required string (query)	Reason to choose this school (nominal:close to "home", school "reputation", "course" preference or "other")  Available values : home, reputation, course, other  <input type="text" value="home"/>
<b>guardian</b> * required string (query)	Student's guardian (nominal:"mother", "father" or "other")  Available values : mother, father, other  <input type="text" value="mother"/>
<b>traveltime</b> * required integer (query)	Home to school travel time (numeric:1 - <15 min., 2 - 15 to 30 min., 3 - 30 min. to 1 hour, or 4 - >1 hour)  <input type="text" value="traveltime"/>
<b>studytime</b> * required integer (query)	Weekly study time (numeric:1 - <2 hours, 2 - 2 to 5 hours, 3 - 5 to 10 hours, or 4 - >10 hours)  <input type="text" value="studytime"/>
<b>failures</b> * required integer (query)	Number of past class failures (numeric:n if 1<=n<3, else 4)  <input type="text" value="failures"/>
<b>schoolsup</b> * required boolean (query)	Extra educational support (binary:true or false)  <input type="text" value="--"/>
<b>famsup</b> * required boolean (query)	Family educational support (binary:true or false)  <input type="text" value="--"/>
<b>paid</b> * required boolean (query)	Extra paid classes within the course subject (binary:true or false)  <input type="text" value="--"/>
<b>activities</b> * required boolean (query)	Extra-curricular activities (binary:true or false)  <input type="text" value="--"/>

Name	Description
<b>nursery</b> * required boolean (query)	Attended nursery school (binary:true or false) <input type="text" value="--"/>
<b>higher</b> * required boolean (query)	Wants to take higher education (binary:true or false) <input type="text" value="--"/>
<b>internet</b> * required boolean (query)	Internet access at home (binary:true or false) <input type="text" value="--"/>
<b>romantic</b> * required boolean (query)	With a romantic relationship (binary:true or false) <input type="text" value="--"/>
<b>famrel</b> * required integer (query)	Quality of family relationships (numeric:from 1 - very bad to 5 - excellent) <input type="text" value="famrel"/>
<b>freetime</b> * required integer (query)	Free time after school (numeric:from 1 - very low to 5 - very high) <input type="text" value="freetime"/>
<b>goout</b> * required integer (query)	Going out with friends (numeric:from 1 - very low to 5 - very high) <input type="text" value="goout"/>
<b>Dalc</b> * required integer (query)	Workday alcohol consumption (numeric:from 1 - very low to 5 - very high) <input type="text" value="Dalc"/>
<b>Walc</b> * required integer (query)	Weekend alcohol consumption (numeric:from 1 - very low to 5 - very high) <input type="text" value="Walc"/>
<b>health</b> * required integer (query)	Current health status (numeric:from 1 - very bad to 5 - very good) <input type="text" value="health"/>

NameDescription

absences

integer

(query)

absences

Number of school absences (numeric:from 0 to 93)

Responses

Code	Description	Links
200	<div>successful operation</div> <div>Media type</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><div>{</div><div>  "isQualified": true</div><div>}</div></div>	No links
400	<div>Invalid input value</div> <div>Media type</div> <div>application/json</div> <div>Example Value Schema</div> <div><div>{</div><div>  "error": "string"</div><div>}</div></div>	No links

Schemas

- SuccessApiResponse
- ErrorApiResponse