README : How to use our flask APP ?

Our flask app allows use to predict the type of obesity of an individual precising specific features.

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# Activate your Environment

## The library you need

from flask import Flask

from flask import request

import pandas as pd

import numpy as np

import matplotlib.pyplot as plt

from sklearn.preprocessing import OrdinalEncoder

from sklearn.svm import SVC

from sklearn.model\_selection import GridSearchCV

from sklearn.ensemble import AdaBoostClassifier

from sklearn.ensemble import GradientBoostingClassifier

from sklearn.ensemble import HistGradientBoostingClassifier

from sklearn.ensemble import BaggingClassifier

from sklearn.ensemble import RandomForestClassifier

from sklearn.ensemble import VotingClassifier

## Select the good environment

**In the command prompt**

If you want to see all of your environment:

Une image contenant texte

Description générée automatiquement

Activate your environment

Une image contenant texte, orange

Description générée automatiquement

# Launch our App

Go on the repository where is located our GitHub using cd:

Une image contenant texte

Description générée automatiquement

Launch the python file “Use\_Flask.py”

Une image contenant texte

Description générée automatiquement

Une image contenant texte

Description générée automatiquement is my **LocalHost**.

On internet type this URL.

**LocalHost**?Age=22&Height=1.80&Weight=70&family\_history\_with\_overweight=0&FAVC=1&FCVC=1&CALC=1

# How to interact with our App ?

## Our features

Age, Height, Weight

Family\_history\_with\_overweight {0=no, 1=yes}

FAVC {0=no, 1=yes }

FCVC {numeric value from 1 to 3}

1= Never

2= Sometimes

3= Always

CALC {0=No,1=Sometimes,2=Frequently,3=Always}

## The format of each features

In this URL : [http://127.0.0.1:5000/?**Age**=22&**Height**=1.80& **Height** =70&**family\_history\_with\_overweight**=0&**FAVC**=1&**FCVC**=1&**CALC**=1](http://127.0.0.1:5000/?Age=22&Height=1.80&Weight=70&family_history_with_overweight=0&FAVC=1&FCVC=1&CALC=1).

What you see in bold are the features . You need to respect the form of each feature !

If you don’t write them in a good, you won’t be able to have a prediction.

Age ∈ [0,100]

Height ∈ [0.20,2.50]

Height ∈ [1,250]

family\_history\_with\_overweight ∈ {0,1}

FAVC ∈ {0,1}

FCVC ∈ [1,3]

CALC ∈ [1,4]