

Deployment on Flask

Name: Anticipating Diabetes With AI

Report date: 4-Jul-2021

Internship Batch: LISUM01

Report intake by: Yousef Elbayoumi

Report intake reviewer: Data Glacier team

Report location: https://github.com/yousefhosam-b/DataGlacier_Internship/tree/main/Task4

Tabular data details:

Total number of observations	768 rows
Total number of files	1 file
Total number of features	9 columns
Base format of the file	csv file
Size of the data	24 KB

Downloading the Required Libraries and Launching:

Downloading NumPy:

```
(Diabetis) C:\Users\sefaa\Envs\Diabetis>pip install numpy
Collecting numpy
  Using cached numpy-1.21.0-cp39-cp39-win_amd64.whl (14.0 MB)
Installing collected packages: numpy
Successfully installed numpy-1.21.0
WARNING: You are using pip version 21.1.2; however, version 21.1.3 is available.
You should consider upgrading via the 'C:\Users\sefaa\Envs\Diabetis\Scripts\python.exe -m pip install --upgrade pip' command.
```

Downloading Pandas:

```
(Diabetis) C:\Users\sefaa\Envs\Diabetis>pip install pandas
Collecting pandas
  Using cached pandas-1.2.5-cp39-cp39-win_amd64.whl (9.3 MB)
Collecting pytz>=2017.3
  Using cached pytz-2021.1-py2.py3-none-any.whl (510 kB)
Collecting python-dateutil>=2.7.3
  Using cached python_dateutil-2.8.1-py2.py3-none-any.whl (227 kB)
Requirement already satisfied: numpy>=1.16.5 in c:\users\sefaa\envs\diabetis\lib\site-packages (from pandas) (1.21.0)
Collecting six>=1.5
  Using cached six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, pytz, python-dateutil, pandas
Successfully installed pandas-1.2.5 python-dateutil-2.8.1 pytz-2021.1 six-1.16.0
WARNING: You are using pip version 21.1.2; however, version 21.1.3 is available.
You should consider upgrading via the 'C:\Users\sefaa\Envs\Diabetis\Scripts\python.exe -m pip install --upgrade pip' command.
```

Downloading Flask:

Using “pip install virtualenv”, “pip install virtualenvwrapper-win”, “mkvirtualenv Diabetis”, and “setprojectdir .” commands.

Downloading Flask_cors:

```
(Diabetis) C:\Users\sefaa\Envs\Diabetis>pip install flask_cors
Collecting flask_cors
  Using cached Flask_Cors-3.0.10-py2.py3-none-any.whl (14 kB)
Collecting Flask>=0.9
  Using cached Flask-2.0.1-py3-none-any.whl (94 kB)
Requirement already satisfied: Six in c:\users\sefaa\envs\diabetis\lib\site-packages (from flask_cors) (1.16.0)
Collecting Werkzeug>=2.0
  Using cached Werkzeug-2.0.1-py3-none-any.whl (288 kB)
Collecting itsdangerous>=2.0
  Using cached itsdangerous-2.0.1-py3-none-any.whl (18 kB)
Collecting click>=7.1.2
  Using cached click-8.0.1-py3-none-any.whl (97 kB)
Collecting Jinja2>=3.0
  Using cached Jinja2-3.0.1-py3-none-any.whl (133 kB)
Collecting colorama
  Using cached colorama-0.4.4-py2.py3-none-any.whl (16 kB)
Collecting MarkupSafe>=2.0
  Using cached MarkupSafe-2.0.1-cp39-cp39-win_amd64.whl (14 kB)
Installing collected packages: MarkupSafe, colorama, Werkzeug, Jinja2, itsdangerous, click, Flask, flask-cors
Successfully installed Flask-2.0.1 Jinja2-3.0.1 MarkupSafe-2.0.1 Werkzeug-2.0.1 click-8.0.1 colorama-0.4.4 flask-cors-3.0.10 itsdangerous-2.0.1
WARNING: You are using pip version 21.1.2; however, version 21.1.3 is available.
You should consider upgrading via the 'C:\Users\sefaa\Envs\Diabetis\Scripts\python.exe -m pip install --upgrade pip' command.
```

Launching the Code:

Using “workon” and “python” commands.

```
C:\Users\sefaa\Envs\Diabetis>workon Diabetis
(Diabetis) C:\Users\sefaa\Envs\Diabetis>python app.py
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
* Restarting with stat
* Debugger is active!
* Debugger PIN: 867-929-096
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Deployment on Flask

Home Page:

Yousef Elbayoumi Description about the Data

Anticipating Diabetes With AI





This Machine Learning model will help you finding if you have Diabetes or not

Enter the values for anticipating Diabetes

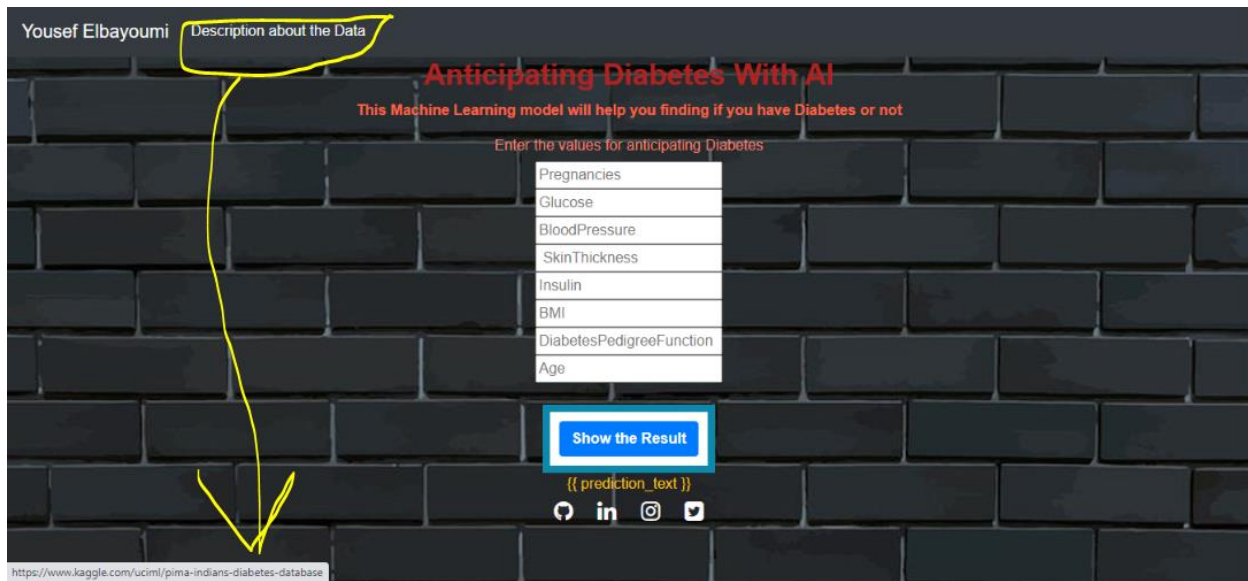
Pregnancies
Glucose
BloodPressure
SkinThickness
Insulin
BMI
DiabetesPedigreeFunction
Age

Show the Result

{{ prediction_text }}

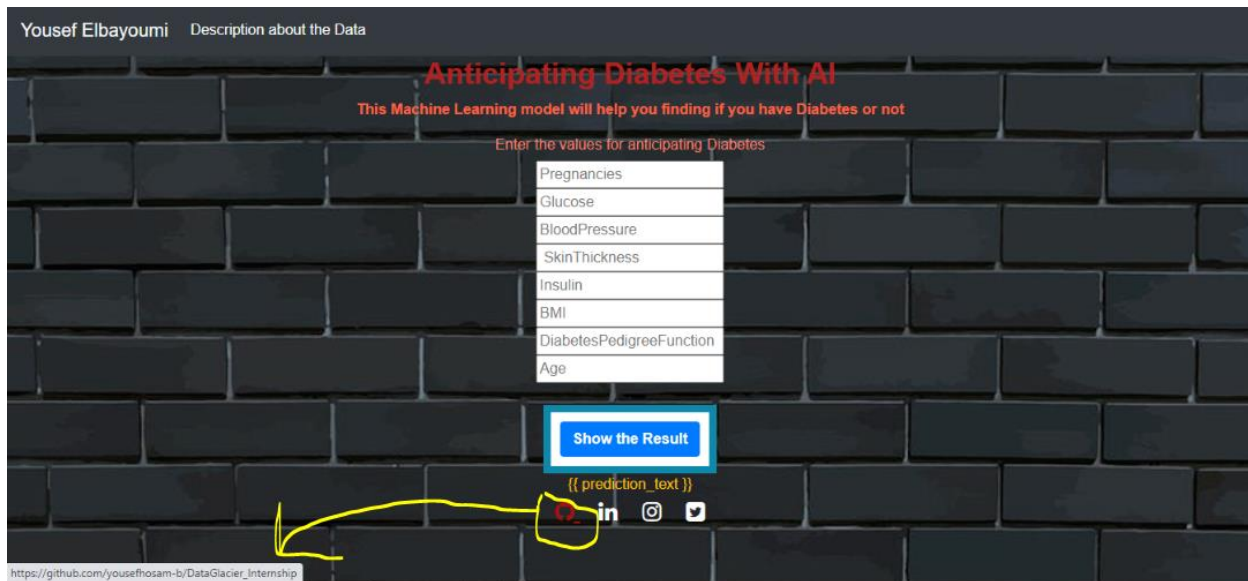
   

Home Page (Description about the Data):



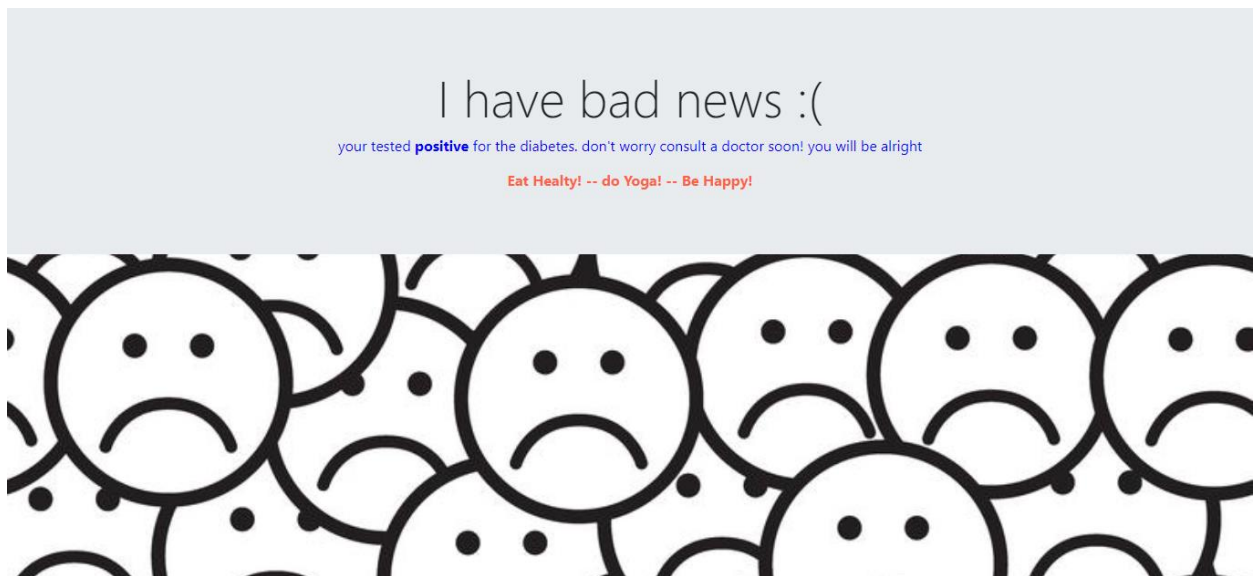
Home Page (Social media):

LinkedIn, Instagram, and Twitter are working as well.

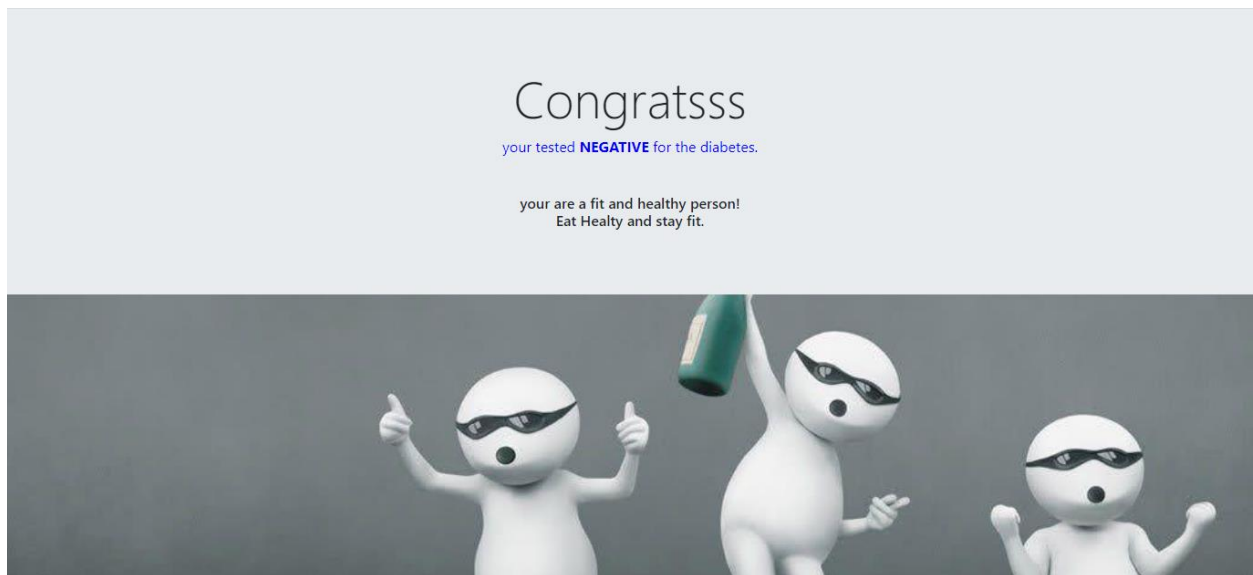


After entering the values of Pregnancies, Glucose, BloodPressure, SkinThickness, Insulin, BMI, DiabetesPedigreeFunction, and Age, a new page will be seen after clicking the “Show the Result” button.

Diabetes Page (Sick person):



Normal Page (healthy person):



Exiting the App

Using "CTRL + C" and "deactivate" commands.

```
* Restarting with stat
* Debugger is active!
* Debugger PIN: 867-929-096
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
127.0.0.1 - - [04/Jul/2021 13:44:04] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [04/Jul/2021 13:44:05] "GET /favicon.ico HTTP/1.1" 404 -

(Diabetis) C:\Users\sefaa\Env\Diabetis>deactivate

C:\Users\sefaa\Env\Diabetis>
```