

In [1]:

```
1 !pip install fastapi
2 !pip install uvicorn
3 !pip install pickle5
4 !pip install pydantic
5 !pip install scikit-learn
6 !pip install requests
7 !pip install pypi-json
8 !pip install pyngrok
9 !pip install nest-asyncio
```

om pypi-json) (1.4.1)

Requirement already satisfied: packaging>=21.0 in c:\programdata\anaconda3\lib\site-packages (from pypi-json) (21.3)

Requirement already satisfied: requests>=2.26.0 in c:\programdata\anaconda3\lib\site-packages (from pypi-json) (2.28.1)

Requirement already satisfied: apeye-core>=1.0.0b2 in c:\users\user\appdata\roaming\python\python39\site-packages (from apeye>=1.1.0->pypi-json) (1.1.5)

Requirement already satisfied: domdf-python-tools>=2.6.0 in c:\users\user\appdata\roaming\python\python39\site-packages (from apeye>=1.1.0->pypi-json) (3.10.0)

Requirement already satisfied: platformdirs>=2.3.0 in c:\programdata\anaconda3\lib\site-packages (from apeye>=1.1.0->pypi-json) (2.5.2)

Requirement already satisfied: pyparsing!=3.0.5,>=2.0.2 in c:\programdata\anaconda3\lib\site-packages (from packaging>=21.0->pypi-json) (3.0.9)

Requirement already satisfied: charset-normalizer<3,>=2 in c:\programdata\anaconda3\lib\site-packages (from requests>=2.26.0->pypi-json) (2.0.4)

Requirement already satisfied: idna<4,>=2.5 in c:\programdata\anaconda3\lib\site-packages (from requests>=2.26.0->pypi-json) (3.3)

Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\programdata\anaconda3\lib\site-packages (from requests>=2.26.0->pypi-json) (1.26.11)

Requirement already satisfied: certifi>=2017.4.17 in c:\programdata\anaconda3\lib\site-packages (from requests

```
In [2]: ▶ 1 from fastapi import FastAPI
          2 from pydantic import BaseModel
          3 import pickle
          4 import json
          5 import uvicorn
          6 from pyngrok import ngrok
          7 from fastapi.middleware.cors import CORSMiddleware
          8 import nest_asyncio
          9 from fastapi.responses import FileResponse
```

```
In [3]: ▶ 1 app = FastAPI()
          2
          3 @app.get("/")
          4 def read_root():
          5     return {"message": "Welcome to my FastAPI app!"}
```

```
In [4]: ▶ 1 origins = ["*"]
          2
          3 app.add_middleware(
          4     CORSMiddleware,
          5     allow_origins=origins,
          6     allow_credentials=True,
          7     allow_methods=["*"],
          8     allow_headers=["*"],
          9 )
```

```
In [5]: ▶ 1 class model_input(BaseModel):  
2  
3     Pregnancies : int  
4     Glucose : int  
5     BloodPressure : int  
6     SkinThickness : int  
7     Insulin : int  
8     BMI : float  
9     DiabetesPedigreeFunction : float  
10    Age : int
```

```
In [6]: ▶ 1 # Loading the saved model  
2 diabetes_model = pickle.load(open(r"c:/Users/user/Desktop/Machine learning pratice/Deploy diabtes prediction M
```



```
In [7]: ► 1 @app.post('/diabetes_prediction')
2 def diabetes_predd(input_parameters : model_input):
3
4     input_data = input_parameters.json()
5     input_dictionary = json.loads(input_data)
6
7     preg = input_parameters.Pregnancies
8     glu = input_parameters.Glucose
9     bp = input_parameters.BloodPressure
10    skin = input_parameters.SkinThickness
11    insulin = input_parameters.Insulin
12    bmi = input_parameters.BMI
13    dpf = input_parameters.DiabetesPedigreeFunction
14    age = input_parameters.Age
15
16
17    input_list = [preg, glu, bp, skin, insulin, bmi, dpf, age]
18
19    prediction = diabetes_model.predict([input_list])
20
21    if (prediction[0] == 0):
22        return 'The person is not diabetic'
23    else:
24        return 'The person is diabetic'
```

```
In [8]: ► 1 !ngrok authtoken 2y2QB4cLo06u9gSfz48ujoz2C0d_2NM22i989Qy1kdRv4S292
2
```

Authtoken saved to configuration file: C:\Users\user\AppData\Local\ngrok/ngrok.yml

In [*]: ▶

```
1 @app.get("/favicon.ico")
2 def favicon():
3     return {"message": "Welcome to my FastAPI app!"}
4
5 # Step 1: Connect to ngrok tunnel on the specified port
6 ngrok_tunnel = ngrok.connect(8000)
7 print('Public URL:', ngrok_tunnel.public_url)
8
9 # Step 2: Apply nest_asyncio for compatibility in notebooks
10 nest_asyncio.apply()
11
12 # Step 3: Run your FastAPI/Uvicorn app
13 uvicorn.run(app, host="0.0.0.0", port=8000)
```

such host"

t=2025-06-08T10:56:39+0100 lvl=error msg="failed to reconnect session" obj=tunnels.session err="failed to dial ngrok server with address \"connect.us.ngrok-agent.com:443\": dial tcp: lookup connect.us.ngrok-agent.com: no such host"

t=2025-06-08T10:57:09+0100 lvl=error msg="failed to reconnect session" obj=tunnels.session err="failed to dial ngrok server with address \"connect.us.ngrok-agent.com:443\": dial tcp: lookup connect.us.ngrok-agent.com: no such host"

t=2025-06-08T10:57:39+0100 lvl=error msg="failed to reconnect session" obj=tunnels.session err="failed to dial ngrok server with address \"connect.us.ngrok-agent.com:443\": dial tcp: lookup connect.us.ngrok-agent.com: no such host"

t=2025-06-08T10:58:09+0100 lvl=error msg="failed to reconnect session" obj=tunnels.session err="failed to dial ngrok server with address \"connect.us.ngrok-agent.com:443\": dial tcp: lookup connect.us.ngrok-agent.com: no such host"

t=2025-06-08T10:58:39+0100 lvl=error msg="failed to reconnect session" obj=tunnels.session err="failed to dial ngrok server with address \"connect.us.ngrok-agent.com:443\": dial tcp: lookup connect.us.ngrok-agent.com: no such host"

t=2025-06-08T10:59:09+0100 lvl=error msg="failed to reconnect session" obj=tunnels.session err="failed to dial ngrok server with address \"connect.us.ngrok-agent.com:443\": dial tcp: lookup connect.us.ngrok-agent.com: no such host"

t=2025-06-08T10:59:39+0100 lvl=error msg="failed to reconnect session" obj=tunnels.session err="failed to dial

In []: ▶

1

