```
!pip install flask_ngrok
```

```
Requirement already satisfied: flask_ngrok in /usr/local/lib/python3.10/dist-packages (0.0.25)
Requirement already satisfied: Flask>=0.8 in /usr/local/lib/python3.10/dist-packages (from flask_ngrok) (2.2.5)
Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from flask_ngrok) (2.31.0)
Requirement already satisfied: Werkzeug>=2.2.2 in /usr/local/lib/python3.10/dist-packages (from Flask>=0.8->flask_ngrok) (3.0.1)
Requirement already satisfied: Jinja2>=3.0 in /usr/local/lib/python3.10/dist-packages (from Flask>=0.8->flask_ngrok) (3.1.2)
Requirement already satisfied: itsdangerous>=2.0 in /usr/local/lib/python3.10/dist-packages (from Flask>=0.8->flask_ngrok) (2.1.2)
Requirement already satisfied: click>=8.0 in /usr/local/lib/python3.10/dist-packages (from Flask>=0.8->flask_ngrok) (8.1.7)
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->flask_ngrok) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests->flask_ngrok) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests->flask_ngrok) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests->flask_ngrok) (2023.7.22)
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages (from Jinja2>=3.0->Flask>=0.8->flask_ngrok) (2.1.3)
```

```
!pip install fastapi nest-asyncio pyngrok uvicorn
```

```
Requirement already satisfied: fastapi in /usr/local/lib/python3.10/dist-packages (0.104.1)
Requirement already satisfied: nest-asyncio in /usr/local/lib/python3.10/dist-packages (1.5.8)
Requirement already satisfied: pyngrok in /usr/local/lib/python3.10/dist-packages (7.0.1)
Requirement already satisfied: uvicorn in /usr/local/lib/python3.10/dist-packages (0.24.0.post1)
Requirement already satisfied: anyio<4.0.0,>=3.7.1 in /usr/local/lib/python3.10/dist-packages (from fastapi) (3.7.1)
Requirement already satisfied: pydantic!=1.8,!=1.8.1,!=2.0.0,!=2.0.1,!=2.1.0,<3.0.0,>=1.7.4 in /usr/local/lib/python3.10/dist-packages (from fastapi) (1.10.13)
Requirement already satisfied: starlette<0.28.0,>=0.27.0 in /usr/local/lib/python3.10/dist-packages (from fastapi) (0.27.0)
Requirement already satisfied: typing-extensions>=4.8.0 in /usr/local/lib/python3.10/dist-packages (from fastapi) (4.8.0)
Requirement already satisfied: PyYAML in /usr/local/lib/python3.10/dist-packages (from pyngrok) (6.0.1)
Requirement already satisfied: click>=7.0 in /usr/local/lib/python3.10/dist-packages (from uvicorn) (8.1.7)
Requirement already satisfied: h11>=0.8 in /usr/local/lib/python3.10/dist-packages (from uvicorn) (0.14.0)
Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.10/dist-packages (from anyio<4.0.0,>=3.7.1->fastapi) (3.4)
Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.10/dist-packages (from anyio<4.0.0,>=3.7.1->fastapi) (1.3.0)
Requirement already satisfied: exceptiongroup in /usr/local/lib/python3.10/dist-packages (from anyio<4.0.0,>=3.7.1->fastapi) (1.1.3)
```

```
import pandas as pd
from flask_ngrok import run_with_ngrok
from flask import request, jsonify, Flask
import random as rk
from fastapi import FastAPI
import nest_asyncio
from pyngrok import ngrok
import uvicorn
```

```
app = Flask(__name__)
run_with_ngrok(app)
```

```
Dados = [{
    'Name': 'Mahesh',
    'Age': 25,
    'City': 'Bangalore',
    'Country': 'India'

        },
        {
    'Name': 'Alex',
    'Age': 26,
    'City': 'London',
    'Country': 'UK'
        },
        {
    'Name': 'David',
    'Age': 27,
    'City': 'San Francisco',
    'Country': 'USA'

        },
        {
    'Name': 'John',
    'Age': 28,
    'City': 'Toronto',
    'Country': 'Canada'
        },
        {
    'Name': 'Chris',
    'Age': 29,
    'City': 'Paris',
    'Country': 'France'}]
```

```
@app.route('/')
def home():
  return '<marquee><h3> TO CHECK IN PUT ADD "/INPUT" TO THE URL AND TO CHECK OUT PUT ADD "/OUTPUT" TO THE URL.<h3><marquee>'
```

```
@app.route('/input')
def input():
  return jsonify(Dados)
```

```
@app.route('/output', methods=['GET', 'POST'])
def predJson():
  pred = r.choice(['positive', 'negative'])
  nd = Dados
  nd['prediction']=pred
  return jsonify(nd)
```

```
run_with_ngrok(app)
app.run()

    * Serving Flask app '__main__'
    * Debug mode: off
   INFO:werkzeug:WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
```

```
 * Running on http://127.0.0.1:5000
INFO:werkzeug:Press CTRL+C to quit
 * Running on http://aab9-35-245-31-45.ngrok.io * Running on http://aab9-35-245-31-45.ngrok.io
 * Traffic stats available on http://127.0.0.1:4040

 * Traffic stats available on http://127.0.0.1:4040
```

```python
app = FastAPI()

@app.get('/index')
async def home():
  return Dados

ngrok_tunnel = ngrok.connect(8000)
print('Public URL:', ngrok_tunnel.public_url)
nest_asyncio.apply()
uvicorn.run(app, port=8000)
```

```
WARNING:pyngrok.process.ngrok:t=2023-11-23T16:05:33+0000 lvl=warn msg="ngrok config file found at legacy location, move to XDG location" xdg_path=/root/.config/ngrok/ngrok.yml legacy_path=/root/.r
Public URL: https://14e1-35-245-31-45.ngrok.io
INFO:     Started server process [7199]
INFO:     Waiting for application startup.
INFO:     Application startup complete.
INFO:     Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
INFO:     168.181.58.0:0 - "GET /index HTTP/1.1" 200 OK
INFO:     168.181.58.0:0 - "GET /favicon.ico HTTP/1.1" 404 Not Found
INFO:     Shutting down
INFO:     Waiting for application shutdown.
INFO:     Application shutdown complete.
INFO:     Finished server process [7199]
```