

Swagger:

Prévision Pathologies API0.1.0OAS 3.1

/openapi.json

default

POST

/predict/linear

Predict Linear

▼

POST

/predict/random_forest

Predict Rf

▼

POST

/predict/gradient_boosting

Predict Gb

▼

POST

/predict/cluster

Predict Cluster

▼

GET

/health

Health

▼

```
{
  "annee": 2027,
  "region": 11,
  "patho_niv1": "Cancers"
}
```

server response

Code	Details
200	<div>Response body<div><pre>{ "model": "Linear Regression", "log_Ntop": 12.342674518429163, "predicted_Ntop": 229273.3312062632 }</pre></div></div> <div>Response headers<div><pre>content-length: 141</pre></div></div>

Code	Details
200	<div>Response body<div><pre>{ "model": "Random Forest", "log_Ntop": 16.04742402679356, "predicted_Ntop": 9317677.119300008 }</pre></div></div> <div>Response headers</div>

Code

Details

200

Response body

```
{
  "model": "Gradient Boosting",
  "log_ntop": 15.887934548845632,
  "predicted_ntop": 7333287.058874868
}
```

Download

Response headers

```
content-length: 94
content-type: application/json
date: Fri, 27 Feb 2026 19:55:39 GMT
server: uvicorn
```

Responses

Code

Details

200

Response body

```
{
  "model": "KMeans Clustering",
  "assigned_cluster": 0
}
```

Download

Response headers

```
content-length: 50
content-type: application/json
date: Sun, 01 Mar 2026 12:40:33 GMT
server: uvicorn
```

La Régression Linéaire est complètement à l'écart (environ 229k vs environ 7-9M), ce qui est cohérent avec son R^2 de 0.156 elle ne sert à rien ici. RF et GB convergent vers le même ordre de grandeur (environ 7-9M), ce qui confirme leur fiabilité. L'écart entre RF et GB (environ 2M) est normal deux algorithmes différents, GB étant légèrement plus conservateur.

Docker:

Docker

0/1710

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Microsoft Windows [Version 10.0.22H2.1713.22H2]

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C:\Users\ervin\Documents\efrei\data science python\projet\projet>docker run -p 8000:8000 patho-api

INFO: Started server process [1]

INFO: Waiting for application startup.

INFO: Application startup complete.

INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)