Swagger:

Prévision Pathologies API `0.1.0` `OAS 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	**Response body**

```
{
  "model": "Linear Regression",
  "log_Ntop": 12.342674518429163,
  "predicted_Ntop": 229273.3312062632
}
```

Response headers

Code	Details
200	**Response body**

```
{
  "model": "Random Forest",
  "log_Ntop": 16.04742402679356,
  "predicted_Ntop": 9317677.119300008
}
```

Response headers

Code	Details
200	**Response body**

```json
{
    "model": "Gradient Boosting",
    "log_Ntop": 15.807934548845632,
    "predicted_Ntop": 7333287.058874868
}
```

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**

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

Response headers

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

Docker:

	Name	Tag	Image ID	Created	Size	Actions
	patho-api	latest	b68b1dfb9d9e	2 days ago	1.78 GB	

```
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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)
```