## **1. Test in Streamlit App**

Run the app: streamlit run frontend/app.py

Then in the web interface, **fill in these sample values manually**:

| **Feature** | **Sample 1** | **Sample 2** | **Sample 3** |
| --- | --- | --- | --- |
| SeniorCitizen | 0 | 1 | 0 |
| MonthlyCharges | 29.85 | 104.80 | 56.95 |
| TotalCharges | 29.85 | 502.40 | 1889.50 |
| Contract\_Two year | 0 | 1 | 0 |
| InternetService\_Fiber optic | 0 | 1 | 1 |

After clicking “**Predict**”, it will return:

Prediction: No (or Yes)

## **2. Test in FastAPI (Swagger UI)**

Run your FastAPI server:

uvicorn backend.api.fastapi\_app:app --reload

Then open: http://127.0.0.1:8000/docs

In the /predict section, click “**Try it out**” and paste the JSON for testing.

### **# Sample JSON Payloads**

#### **Sample 1:**

{

"SeniorCitizen": 0,

"MonthlyCharges": 29.85,

"TotalCharges": 29.85,

"Contract\_Two year": 0,

"InternetService\_Fiber optic": 0

}

#### **Sample 2:**

{

"SeniorCitizen": 1,

"MonthlyCharges": 104.80,

"TotalCharges": 502.40,

"Contract\_Two year": 1,

"InternetService\_Fiber optic": 1

}

#### **Sample 3:**

{

"SeniorCitizen": 0,

"MonthlyCharges": 56.95,

"TotalCharges": 1889.50,

"Contract\_Two year": 0,

"InternetService\_Fiber optic": 1

}

You'll get back:

{

"prediction": 0 // or 1

}

Where …….0 = Not Churn, 1 = Churn.