

Matthew Iversen

LISUM 26

11/5/2023

[matthewiversen/insurance-premium-predictor \(github.com\)](https://github.com/matthewiversen/insurance-premium-predictor)

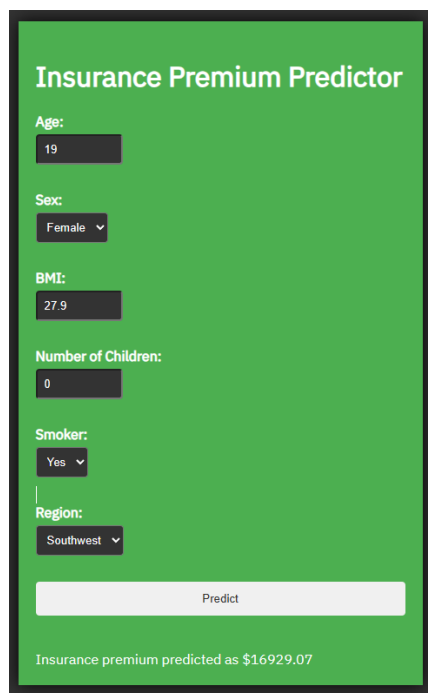
[ML API \(insurance-premium-predictor-57096ef0d582.herokuapp.com\)](https://insurance-premium-predictor-57096ef0d582.herokuapp.com/)

The data we will fill out to test the cloud and API model:

```
age,sex,bmi,children,smoker,region,charges
19,female,27.9,0,yes,southwest,16884.924
18,male,33.77,1,no,southeast,1725.5523
```

For testing the cloud deployment:

1. Go to [heroku app](https://herokuapp.com), then you can fill out the form and click 'predict' to see the results of the ML model



Insurance Premium Predictor

Age: 19

Sex: Female

BMI: 27.9

Number of Children: 0

Smoker: Yes

Region: Southwest

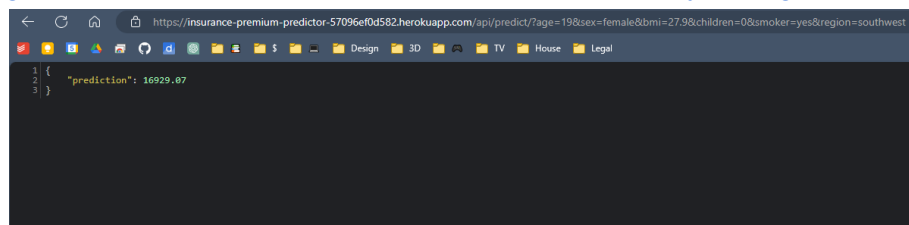
Predict

Insurance premium predicted as \$16929.07

a.

For testing the API deployment:

2. Follow this link to see the above data points used in API format or copy and paste it into Postman
 - a. <https://insurance-premium-predictor-57096ef0d582.herokuapp.com/api/predict/?age=19&sex=female&bmi=27.9&children=0&smoker=yes®ion=southwest>



b.

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The screenshot shows the Swagger UI for the insurance-premium-predictor API. The interface is dark-themed and displays a GET request to the endpoint `https://insurance-premium-predictor-57096ef0d582.herokuapp.com/api/predict/?age=19&sex=female&bmi=27.9&children=0&smoker=yes®ion=southwest`. The query parameters are listed in a table:

Key	Value	Description
age	19	
sex	female	
bmi	27.9	
children	0	
smoker	yes	
region	southwest	

The response body is displayed in JSON format: `{\"prediction\": 16929.87}`. The status is 200 OK, the time is 256 ms, and the size is 703 B.

C.

In both cases, we get \$16929.07, which is very close to the actual value of \$16884.93.