

Wireframe Documentation

Mall Customer Segmentation

Home page

The model is deployed in FastAPI as an API and after running the link to the connection at 127.0.0.1:8000, the user is greeted with a home page as seen below

```
if __name__ == '__main__':  
    uvicorn.run(app, host = '127.0.0.1', port = 8000)
```

```
INFO: Started server process [16252]  
INFO: Waiting for application startup.  
INFO: Application startup complete.  
INFO: Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
```

```
← → ↻ ⓘ 127.0.0.1:8000  
  
{"Message": "Welcome to Customer group prediction. Type /docs at the end of the above url"}
```

Prediction Page

The link can be diverted to the Swagger UI by typing “/docs” at the end of the link

Mall customer group 0.1.0 OAS3

/openapi.json

Mall segmentation API helps you to determine which group the customer belongs to.

Items

You can find which category the customer is in

Users

Just enter the fields below in the predict tab to make predictions

All values are to be input as integers

Annual income: Annual income of a customer in 1000s

Spending score: Spending Score is assigned to the customer based on parameters like customer behavior and purchasing data. Enter values from 0 - 100(100 included)

default ^

GET	/	Index	▼
GET	/name	Get Name	▼
POST	/predict	Predict Group	▼

The user can start the prediction by selecting the predict pane and can input values so that the model can predict the group of the customer

POST

/predict

Predict Group

^

Parameters

Try it out

No parameters

Request body required

application/json

Example Value | Schema

```
{  
  "annual_income": 0,  
  "spending_score": 0  
}
```

The values can be entered to the model by pressing on the “Try it out” button

POST

/predict

Predict Group

^

Parameters

Cancel

Reset

No parameters


Request body required

application/json

```
{  
  "annual_income": 20,  
  "spending_score": 65  
}
```

Execute

After pressing the “Execute” button, the model outputs the group the customer belongs to.

Code	Details	
200	<div><div>Response body</div><div><pre>{ "prediction": "Customer with low annual income and low spending score" }</pre></div><div><div></div><div>Download</div></div></div> <div><div>Response headers</div><div><pre>content-length: 71 content-type: application/json date: Thu, 30 Mar 2023 13:40:46 GMT server: uvicorn</pre></div></div>	
Responses		
Code	Description	Links
200	Successful Response	No links

The model can be used to make predictions again by re-entering the relevant values as seen below

POST /predict Predict Group

Parameters

No parameters

Request body required

application/json

```
{
  "annual_income": 90,
  "spending_score": 78
}
```


Execute

The model again outputs the designated group of the customer

200

Response body

```
{
  "prediction": "Customer with high annual income and high spending score"
}
```

Download

Response headers

```
content-length: 73
content-type: application/json
date: Thu, 30 Mar 2023 13:43:27 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	No links