[**Keyword-Research-Agent**](https://github.com/MohsenMostafa1/Keyword-Research-Agent/tree/main) **- Test**

### 1. ****Start Your FastAPI Server****

First, run your FastAPI application:

bash

python3 KRA.py

Your server should start at http://localhost:8000

### 2. ****Postman Setup****

#### ****A. Test the**** /keywords ****Endpoint (POST)****

1. **Create a new request** in Postman
2. Set the request type to **POST**
3. Enter URL: http://localhost:8000/keywords
4. Go to the **Body** tab:
   * Select **raw**
   * Choose **JSON** format
5. Enter a sample request body:

json

{

"query": "digital marketing",

"region": "US",

"timeframe": "today 12-m",

"min\_relevance": 0.6,

"max\_results": 5

}

1. Click **Send**

**Response**:

* List of keyword results with volume, competition, and relevance scores

[

{

"keyword": "Sell Like Crazy: How to Get As Many Clients, Customers and Sales As You Can Possibly Handle",

"volume": 44562,

"competition": 0.16,

"relevance": 0.65,

"last\_updated": "2025-05-18T14:11:01.510682"

},

{

"keyword": "Internet Marketing",

"volume": 40745,

"competition": 0.89,

"relevance": 0.61,

"last\_updated": "2025-05-18T14:11:01.510599"

},

{

"keyword": "Internet Marketing",

"volume": 3314,

"competition": 0.49,

"relevance": 0.84,

"last\_updated": "2025-05-18T14:11:01.510407"

}

]

#### ****B. Test the**** /keywords/verify ****Endpoint (POST)****

1. Create another **POST** request
2. URL: http://localhost:8000/keywords/verify
3. JSON Body:

json

{

"query": "content marketing",

"test\_runs": 3

}

1. Click **Send**

**Response**:

{

"consistency\_score": 0.4,

"common\_keywords": [

"Marketing 6.0: The Future Is Immersive",

"Business Driven Technology",

"Ross Kernez",

"Vanessa Lau"

],

"sample\_size": 3,

"data\_quality": {

"mean\_relevance": 0.62,

"competition\_variance": 0.1564,

"volume\_consistency": 0.4429

}

}

#### ****C. Test the**** /health ****Endpoint (GET)****

1. Create a **GET** request
2. URL: http://localhost:8000/health
3. Click **Send**

**Response**:

{

"status": "healthy",

"cache\_size": 3,

"total\_requests": 4,

"api\_version": "2.0.0"

}

### Key Tips:

1. **Check Response Status Codes**:
   * 200 = Success
   * 400 = Bad request (validation error)
   * 500 = Server error
2. **Headers**:
   * Ensure Content-Type: application/json is set