Topic Clusters API

Behavior

Given a query term, the Topic Clusters API returns discrete clusters of documents based on similarity.

`GET /api/v2/query-terms/{term}/clusters`

Request Fields

Attribute	Description
term string	(*Path Parameter - Required*) The query term

Response Fields

Attribute	Description
x_term string	The query term
clusters list of dict	List of discrete document clusters
clusters[i].name string	Inferred topic label of cluster
clusters[i].start_date string	Start date of documents in cluster
clusters[i].end_date string	End date of documents in cluster
clusters[i].summary string	General summary of documents in cluster
clusters[i].docs list of dict	List of documents comprising the cluster
clusters[i].docs[j].body string	Content body of document. Social Media handles are redacted for privacy
clusters[i].docs[j].processed_body string	Cleaned content body of document with redacted text removed.
clusters[i].docs[j].timestamp string	Date posted of document
clusters[i].docs[j].source string	Data source of document
clusters[i].docs[j].x float	x-coordinate for plotting in a 2-dimension space based on sentence embeddings
clusters[i].docs[j].y float	y-coordinate for plotting in a 2-dimension space based on sentence embeddings
clusters[i].labels list of dicts	List of cluster labels
clusters[i].labels[j].label string	Label for cluster
clusters[i].labels[j].importance float	Score representing the importance of the label to the cluster

Sample Request

```
1  GET api/v2/query-terms/turmeric/clusters HTTP/1.1
2  Content-Type: application/json
3  Authorization: Bearer <TOKEN>
```

Sample Response

```
1  {
2    "x_term": "turmeric",
3    "clusters": [
4      {
5        "name": "Wellness Boost",
6        "start_date": "2023-08-25",
7        "end_date": "2024-02-22",
8        "summary": "This cluster contains posts focusing on turmeric as a beneficial ingredient for energy, skin
   health, meal preparation, and homemade beverages, emphasizing its versatility and health benefits.",
9        "docs": [
10         {
11           "body": "<REDACTED><REDACTED> Ohh Sorry to hear that . We usually have home made remedy for this
   .\nOne pinch of turmeric in one spoon of mustard oil .",
12           "processed_body": "ohh sorry to hear that | we usually have home made remedy for this | one pinch of
   turmeric in one spoon of mustard oil",
13           "timestamp": "2023-11-14",
14           "source": "twitter",
15           "x": 8.169857025146484,
16           "y": 1.7958219051361084
17         },
18         ...
19       ],
20       "labels": [
21         {
22           "label": "turmeric",
23           "importance": 0.9493799898080516
24         },
25         {
26           "label": "make",
27           "importance": 0.6726127320954908
28         },
29         ...
30       ]
31     },
32     ...
33   ]
34 }
```