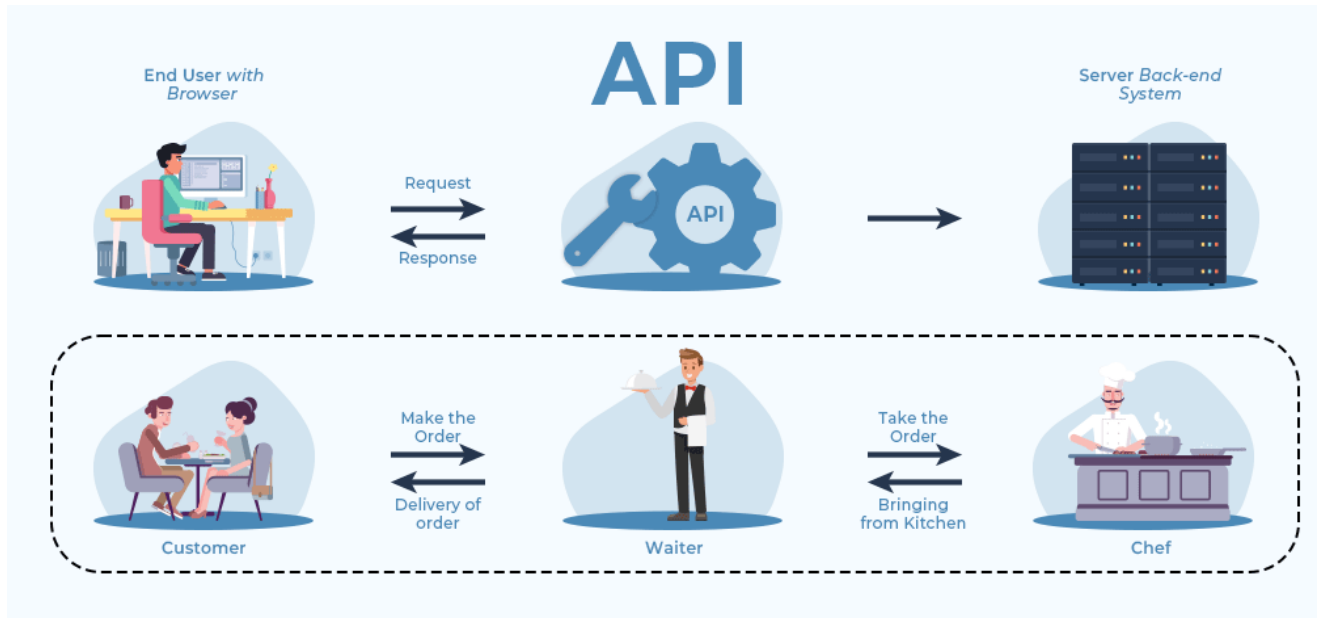# API

an API is a way for two pieces of software to talk to each other. It is a set of rules that define how they can communicate. APIs are used to access data and functionality from other applications.

Fetching Data From API

```
In [1]:   import requests
          import pandas as pd
```

TMDB: https://api.themoviedb.org/3/movie/popular?api_key=ba9c2bc580ac2b75bf0bb85165ef&language=en-US&page=1 (https://api.themoviedb.org/3/movie/popular?api_key=ba9c2bc580ac2b75bf0bb85165ef&language=en-US&page=1)

- Add TMDB API key

```
In [2]:   requests.get("https://api.themoviedb.org/3/movie/popular?api_key=ba9c2bc580ac2b75bf0bb85165ef3386&language=en-US&page=1")
```

```
Out[2]:   <Response [200]>
```

```
In [3]:   response = requests.get("https://api.themoviedb.org/3/movie/popular?api_key=ba9c2bc580ac2b75bf0bb85165ef3386&language=en-US&page=
```

```
In [17]:  response.json()
```

```
Out[17]:  {'page': 487,
           'results': [{'adult': False,
             'backdrop_path': '/2YgPWELbDaL9BBJx41EuZQB7t8t.jpg',
             'genre_ids': [35, 12],
             'id': 37565,
             'original_language': 'en',
             'original_title': "St Trinian's 2: The Legend of Fritton's Gold",
             'overview': 'The girls of St. Trinians are on the hunt for buried treasure after discovering headmistress Miss Fritton is
           related to a famous pirate.',
             'popularity': 9.66,
             'poster_path': '/kRNowy4kk8gKHv1ek2xFueilDpc.jpg',
             'release_date': '2009-12-18',
             'title': "St Trinian's 2: The Legend of Fritton's Gold",
             'video': False,
             'vote_average': 5.6,
             'vote_count': 196},
            {'adult': False,
             'backdrop_path': '/xplBg3eJlww2uOxdnnPwwe1LPPn.jpg',
             'genre_ids': [27, 28, 53],
```

In [4]:
```python
# Extract Oly desired results

response.json()['results']
```

Out[4]:
```
[{'adult': False,
  'backdrop_path': '/h8gHn0OzBoaefsYseUByqsmEDMY.jpg',
  'genre_ids': [28, 53, 80],
  'id': 603692,
  'original_language': 'en',
  'original_title': 'John Wick: Chapter 4',
  'overview': 'With the price on his head ever increasing, John Wick uncovers a path to defeating The High Table. But before
he can earn his freedom, Wick must face off against a new enemy with powerful alliances across the globe and forces that turn
old friends into foes.',
  'popularity': 6448.501,
  'poster_path': '/vZloFAK7NmvMGKE7VkF5UHaz0I.jpg',
  'release_date': '2023-03-22',
  'title': 'John Wick: Chapter 4',
  'video': False,
  'vote_average': 8,
  'vote_count': 2322},
 {'adult': False,
  'backdrop_path': '/2klQ1z1fcHGgQPevbEQdkCnzyuS.jpg',
  'genre_ids': [16, 10751, 12, 14, 35],
```

In [5]: `pd.DataFrame(response.json()['results'])`

Out[5]:

	adult	backdrop_path	genre_ids	id	original_language	original_title	overview	popularity	poster_pa
0	False	/h8gHn0OzBoaefsYseUByqsmEDMY.jpg	[28, 53, 80]	603692	en	John Wick: Chapter 4	With the price on his head ever increasing, Jo...	6448.501	/vZloFAK7NmvMGKE7VkF5UHaz0I.j
1	False	/2klQ1z1fcHGgQPevbEQdkCnzyuS.jpg	[16, 10751, 12, 14, 35]	502356	en	The Super Mario Bros. Movie	While working underground to fix a water main,...	4152.910	/qNBAXBIQlnOThrVvA6mA2B5ggV6.j
2	False	/4t0oBFrJyweYPt0hocW6RUa0b6H.jpg	[28, 80, 53]	385687	en	Fast X	Over many missions and against impossible odds...	3105.206	/1E5baAaEse26fej7uHcjOgEE2t2.j
3	False	/pbMbDIOAkVuvnxovBA2ENin59xH.jpg	[12, 10751, 14, 10749]	447277	en	The Little Mermaid	The youngest of King Triton's daughters, and t...	2224.581	/ym1dxyOk4jFcSl4Q2zmRrA5BEEN.j
4	False	/aAgGrfBwna1nO4M2USxwFgK5O0t.jpg	[53, 27]	713704	en	Evil Dead Rise	Three siblings find an ancient vinyl that give...	1716.973	/5ik4ATKmNtmJU6AYD0bLm56BCVM.j
5	False	/nyZ8e7lRRwdF21NyydRIo0B9AXZ.jpg	[28, 10752]	840326	fi	Sisu	Deep in the wilderness of Lapland, Aatami Korp...	1788.983	/ygO9lowFMXWymATCrhoQXd6gCEh.j
6	False	/m8JTwHFwX7I7JY5fPe4SjqejWag.jpg	[28, 12, 878]	640146	en	Ant-Man and the Wasp: Quantumania	Super-Hero partners Scott Lang and Hope van Dy...	1432.191	/qnqGbB22YJ7dSs4o6M7exTpNxPz.j
7	False	/51vreLbrGwzAg4WRCHgitWz6Naw.jpg	[878, 12, 28]	447365	en	Guardians of the Galaxy Vol. 3	Peter Quill, still reeling from the loss of Ga...	1235.683	/r2J02Z2OpNTctfOSN1Ydgii51I3.j
8	False	/T5xXoFqyc9jNXZIbH4Sw0jwWjw.jpg	[28, 80, 53, 9648]	605886	en	To Catch a Killer	Baltimore. New Year's Eve. A talented but trou...	1224.088	/p5x6QaDMSXba5EPcwReAH2X7drm.j
9	False	/suw8eyL3YwE4wfzPQ0cLR02k0Gh.jpg	[878, 12, 28]	76600	en	Avatar: The Way of Water	Set more than a decade after the events of the...	1149.276	/t6HIqrRAclMCA60NsSmeqe9RmNV.j
10	False	/i1eghEBiC0gN4KnwuUGC2fNiX1f.jpg	[28, 53]	552688	en	The Mother	A deadly female assassin comes out of hiding t...	1033.189	/vnRthEZz16Q9VWcP5homkHxyHoy.j
11	False	/hiHGRbyTcbZoLsYYkO4QiCLYe34.jpg	[27, 53]	758323	en	The Pope's Exorcist	Father Gabriele Amorth, Chief Exorcist of the ...	1076.329	/4ljRR2OW2itjQWQnmlUzvwLz9DQ.j
12	False	/nDxJJyA5giRhXx96q1sWbOUjMBI.jpg	[35, 28, 14]	594767	en	Shazam! Fury of the Gods	Billy Batson and his foster siblings, who tran...	909.629	/A3ZbZsmsvNGdprRi2lKgGEeVLEH.j
13	False	/eTvN54pd83TrSEOz6wbsXEJktCV.jpg	[10752, 28, 53]	882569	en	Guy Ritchie's The Covenant	During the war in Afghanistan, a local interpr...	843.065	/jZy73aPYrwwhuc37ALgnJUCaTnK.j
14	False	/mfPfFVhpnGp8bG4IUoBJPUs2xKj.jpg	[878, 28, 12, 10751]	620705	en	Crater	After the death of his father, a boy growing u...	717.089	/n8ZpMwYT02XjpQHpSxn1eJw5Zpz.j
15	False	/qElNES0sHVQcbzvGrTx7ccpGzij.jpg	[878, 28, 18]	842675	zh	流浪地球2	A prequel to The Wandering Earth.	668.459	/pR858ihc6Ls9xohpdRJVjV787ml.j
16	False	/5i6SjyDbDWqyun8klUuCxrlFbyw.jpg	[18, 28]	677179	en	Creed III	After dominating the boxing world, Adonis Cree...	792.948	/cvsXj3I9Q2iyyIo95AecSd1tad7.j

	adult	backdrop_path	genre_ids	id	original_language	original_title	overview	popularity	poster_pa
17	False	/b9UCfDzwiWw7mIFsIQR9ZJUeh7q.jpg	[28, 35, 10749]	868759	en	Ghosted	Salt-of-the-earth Cole falls head over heels f...	654.747	/liLN69YgoovHVgmlHJ876PKi5Yi.j
18	False	/wIb43RlPf5iYeoBAYIfxfhpE8NI.jpg	[28, 53]	1094319	en	The Best Man	Mercenaries seize control of a remote resort h...	619.987	/c9f6mFZqkyz4AD0sxGmynE1pe0v.j
19	False	/jr8tSoJGj33XLgFBy6lmZhpGQNu.jpg	[16, 10751, 14, 12, 35]	315162	en	Puss in Boots: The Last Wish	Puss in Boots discovers that his passion for a...	630.732	/kuf6dutpsT0vSVehic3EZlqkOBt.j

Extract Desired Columns **id,original_title,overview,popularity,release_date,vote_average,vote_count**

In [6]: `pd.DataFrame(response.json()['results'])[['id','original_title','overview','popularity','release_date','vote_average','vote_count`

Out[6]:

	id	original_title	overview	popularity	release_date	vote_average	vote_count
0	603692	John Wick: Chapter 4	With the price on his head ever increasing, Jo...	6448.501	2023-03-22	8.0	2322
1	502356	The Super Mario Bros. Movie	While working underground to fix a water main,...	4152.910	2023-04-05	7.8	3834
2	385687	Fast X	Over many missions and against impossible odds...	3105.206	2023-05-17	7.1	635
3	447277	The Little Mermaid	The youngest of King Triton's daughters, and t...	2224.581	2023-05-18	6.1	306
4	713704	Evil Dead Rise	Three siblings find an ancient vinyl that give...	1716.973	2023-04-12	7.1	1425
5	840326	Sisu	Deep in the wilderness of Lapland, Aatami Korp...	1788.983	2022-10-12	7.5	494
6	640146	Ant-Man and the Wasp: Quantumania	Super-Hero partners Scott Lang and Hope van Dy...	1432.191	2023-02-15	6.5	3032
7	447365	Guardians of the Galaxy Vol. 3	Peter Quill, still reeling from the loss of Ga...	1235.683	2023-05-03	8.1	1700
8	605886	To Catch a Killer	Baltimore. New Year's Eve. A talented but trou...	1224.088	2023-04-06	7.0	201
9	76600	Avatar: The Way of Water	Set more than a decade after the events of the...	1149.276	2022-12-14	7.7	8247
10	552688	The Mother	A deadly female assassin comes out of hiding t...	1033.189	2023-05-04	6.8	645
11	758323	The Pope's Exorcist	Father Gabriele Amorth, Chief Exorcist of the ...	1076.329	2023-04-05	7.3	1243
12	594767	Shazam! Fury of the Gods	Billy Batson and his foster siblings, who tran...	909.629	2023-03-15	6.8	1805
13	882569	Guy Ritchie's The Covenant	During the war in Afghanistan, a local interpr...	843.065	2023-04-19	7.5	392
14	620705	Crater	After the death of his father, a boy growing u...	717.089	2023-05-12	6.8	132
15	842675	流浪地球2	A prequel to The Wandering Earth.	668.459	2023-01-22	7.2	233
16	677179	Creed III	After dominating the boxing world, Adonis Cree...	792.948	2023-03-01	7.3	1468
17	868759	Ghosted	Salt-of-the-earth Cole falls head over heels f...	654.747	2023-04-18	7.0	902
18	1094319	The Best Man	Mercenaries seize control of a remote resort h...	619.987	2023-04-21	6.0	51
19	315162	Puss in Boots: The Last Wish	Puss in Boots discovers that his passion for a...	630.732	2022-12-07	8.3	5621

In [7]: `# Save in to data frame`
`df =pd.DataFrame(response.json()['results'])[['id','original_title','overview','popularity','release_date','vote_average','vote_c`

In [8]: `df.head()`

Out[8]:

	id	original_title	overview	popularity	release_date	vote_average	vote_count
0	603692	John Wick: Chapter 4	With the price on his head ever increasing, Jo...	6448.501	2023-03-22	8.0	2322
1	502356	The Super Mario Bros. Movie	While working underground to fix a water main,...	4152.910	2023-04-05	7.8	3834
2	385687	Fast X	Over many missions and against impossible odds...	3105.206	2023-05-17	7.1	635
3	447277	The Little Mermaid	The youngest of King Triton's daughters, and t...	2224.581	2023-05-18	6.1	306
4	713704	Evil Dead Rise	Three siblings find an ancient vinyl that give...	1716.973	2023-04-12	7.1	1425

Above code is for only 1 Page . But we have nearly 35826 pages . For extracting all pages , we have to use loop

In [9]:
```python
# Create an Empty DataFrame

df =pd.DataFrame()
```

In [10]:
```python
df
```

Out[10]:
　

use : requests.get("https://api.themoviedb.org/3/movie/popular?api_key=ba9c2bc580ac2b75bf0bb85165ef&language=en-US&page={}" (https://api.themoviedb.org/3/movie/popular?api_key=ba9c2bc580ac2b75bf0bb85165ef&language=en-US&page=%7B%7D) .format(i)

In [13]:
```python
for i in range(1,488):
    response = requests.get("https://api.themoviedb.org/3/movie/popular?api_key=ba9c2bc580ac2b75bf0bb85165ef3386&language=en-US&p
    temp_df =pd.DataFrame(response.json()['results'])[['id','original_title','overview','popularity','release_date','vote_average
    df = df.append(temp_df,ignore_index =True)
```

In [14]:
```python
df
```

Out[14]:

	id	original_title	overview	popularity	release_date	vote_average	vote_count
0	603692	John Wick: Chapter 4	With the price on his head ever increasing, Jo...	6448.501	2023-03-22	8.0	2322
1	502356	The Super Mario Bros. Movie	While working underground to fix a water main,...	4152.910	2023-04-05	7.8	3834
2	385687	Fast X	Over many missions and against impossible odds...	3105.206	2023-05-17	7.1	635
3	447277	The Little Mermaid	The youngest of King Triton's daughters, and t...	2224.581	2023-05-18	6.1	306
4	713704	Evil Dead Rise	Three siblings find an ancient vinyl that give...	1716.973	2023-04-12	7.1	1425
...	...	...	...	...	...	...	...
9735	586707	Life Like	An idealistic attractive young couple acquires...	12.168	2019-05-14	6.4	188
9736	216539	Ghost Shark	A coastal town is plagued by a supernatural ma...	12.160	2013-08-22	5.2	126
9737	89899	Les infidèles	Eight short films explore the subject of male ...	12.409	2012-02-29	4.7	629
9738	19120	Giulietta degli spiriti	Middle-aged Giulietta grows suspicious of her ...	9.107	1965-10-22	7.3	263
9739	10371	For Richer or Poorer	Brad Sexton and his wife, Caroline, are wealth...	11.607	1997-12-11	5.9	199

9740 rows × 7 columns

In [16]:
```python
df.to_csv('movies.csv')
```

	A	B	C	D	E	F	G	H	
1		id	original_title	overview	popularity	release_date	vote_average	vote_count	
2	0	603692	John Wick: Chapter 4	e can earn his freedom, Wick must f	6448.501	3/22/2023	8	2322	
3	1	502356	The Super Mario Bros. Movie	rted down a mysterious pipe and wa	4152.91	4/5/2023	7.8	3834	
4	2	385687	Fast X	nt they've ever faced: A terrifying th	3105.206	5/17/2023	7.1	635	
5	3	447277	The Little Mermaid	rith mermaids forbidden to interact	2224.581	5/18/2023	6.1	306	
6	4	713704	Evil Dead Rise	eles apartment building and thrusts	1716.973	4/12/2023	7.1	1425	
7	5	840326	Sisu	nbles upon Nazi patrol, a breathtakir	1788.983	10/12/2022	7.5	494	
8	6	640146	Man and the Wasp: Quantum	ind themselves exploring the Quantu	1432.191	2/15/2023	6.5	3032	
9	7	447365	Guardians of the Galaxy Vol. 3	h protecting one of their own. A mis	1235.683	5/3/2023	8.1	1700	
10	8	605886	To Catch a Killer	fficer is recruited by the FBI's chief i	1224.088	4/6/2023	7	201	
11	9	76600	Avatar: The Way of Water	ir kids), the trouble that follows ther	1149.276	12/14/2022	7.7	8247	
12	10	552688	The Mother	tect the daughter that she gave up y	1033.189	5/4/2023	6.8	645	
13	11	758323	The Pope's Exorcist	rrifying possession and ends up unco	1076.329	4/5/2023	7.3	1243	
14	12	594767	Shazam! Fury of the Gods	ced to get back into action and figh	909.629	3/15/2023	6.8	1805	
15	13	882569	Guy Ritchie's The Covenant	ter risks his own life to carry an inju	843.065	4/19/2023	7.5	392	
16	14	620705	Crater	to explore a legendary crater, along	717.089	5/12/2023	6.8	132	
17	15	842675	æµæµ⁴åœ°çƒ2	A prequel to The Wandering Earth.	668.459	1/22/2023	7.2	233	
18	16	677179	Creed III	ce in prison, he is eager to prove tha	792.948	3/1/2023	7.3	1468	
19	17	868759	Ghosted	sheâ€™s a secret agent. Before the	654.747	4/18/2023	7	902	
20	18	1094319	The Best Man	it's up to the best man, the groom a	619.987	4/21/2023	6	51	
21	19	315162	Puss in Boots: The Last Wish	f his nine lives, leaving him with only	630.732	12/7/2022	8.3	5621	
22	20	799379	ëš'ëŒ€ì,¬ëƒ¥	as the fugitives continue their brutal	1027.599	9/21/2022	6.5	136	
23	21	916224	ã™ãšã,ã®æ°',ç· ã¾ã,Š	ur curiosity unleashes a calamity	541.544	11/11/2022	7.9	403	
24	22	420808	Peter Pan & Wendy	nker Bell, she travels with Peter to t	546.533	4/20/2023	5.8	402	
25	23	934433	Scream VI	gs, the four survivors leave Woodsbo	488.958	3/8/2023	7.3	1285	
26	24	569094	der-Man: Across the Spider-Ve	ed with protecting its very existence	599.911	5/31/2023	6.7	13	
27	25	1020696	Play Dead	ng. Once inside, she discovers that a	434.74	12/9/2022	6.9	53	
28	26	1105803	Snag	gangsters. Now, to take on this dan	655.231	4/28/2023	6	25	
29	27	493529	ons & Dragons: Honor Among	ic heist to retrieve a lost relic, but th	542.161	3/23/2023	7.5	1499	
30	28	1016121	Beautiful Disaster	™s resistance, Travis offers her a sim	485.854	4/4/2023	6	188	

movies

READY

```python
In [19]:  import requests

          url = "https://spoonacular-recipe-food-nutrition-v1.p.rapidapi.com/recipes/complexSearch"

          querystring = {"query":"pasta","cuisine":"italian","excludeCuisine":"greek","diet":"vegetarian","intolerances":"gluten","equipmer

          headers = {
              "X-RapidAPI-Key": "98c0f8a664mshe2f1abc1e7eb647p1c03d8j",
              "X-RapidAPI-Host": "spoonacular-recipe-food-nutrition-v1.p.rapidapi.com"
          }

          response = requests.request('GET',url,headers =headers)

          print(response.text)
```
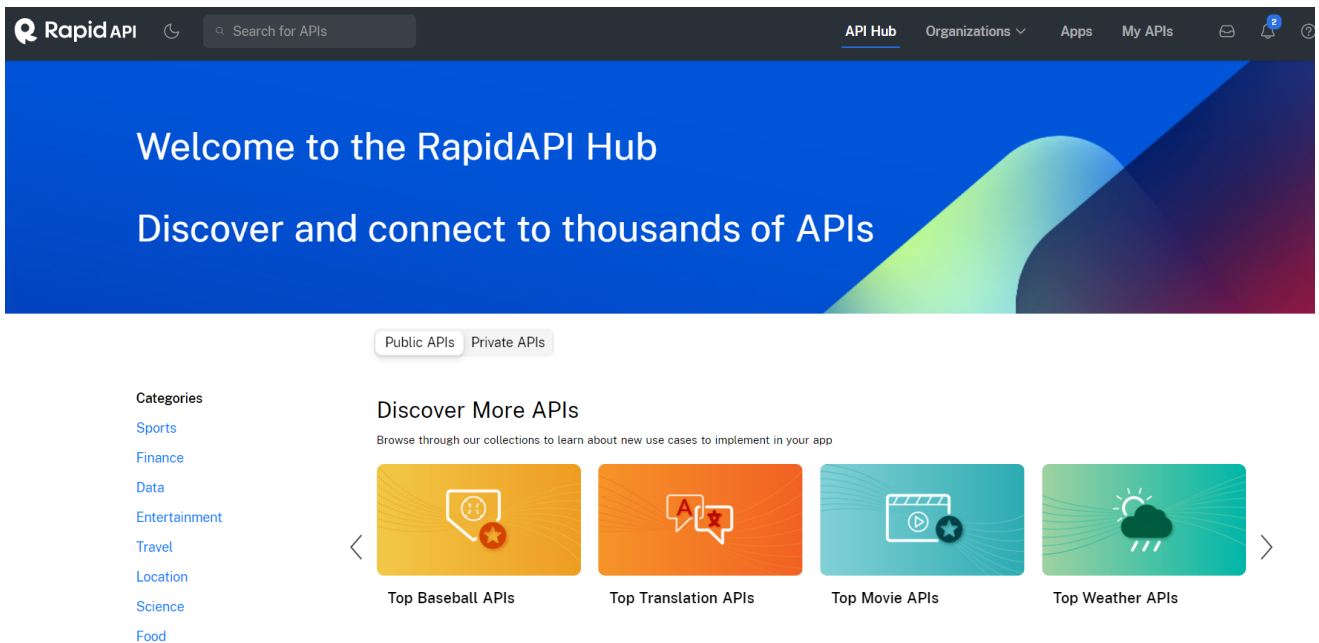
{"message":"You are not subscribed to this API."}

Rapid API


```python
In [21]:  import requests

          url = "https://openai80.p.rapidapi.com/models"

          headers = {
              "X-RapidAPI-Key": "98c0f8a664mshe2f1abc1e7eb647p1c03d8j",
              "X-RapidAPI-Host": "openai80.p.rapidapi.com",
              "Accept-Encoding": "identity"    # Add this header to request uncompressed content
          }

          response = requests.get(url, headers=headers)

          print(response.json())
```

{'object': 'list', 'data': [{'id': 'whisper-1', 'object': 'model', 'created': 1677532384, 'owned_by': 'openai-internal', 'per
mission': [{'id': 'modelperm-KlsZlfft3Gma8pI6A8rTnyjs', 'object': 'model_permission', 'created': 1683912666, 'allow_create_en
gine': False, 'allow_sampling': True, 'allow_logprobs': True, 'allow_search_indices': False, 'allow_view': True, 'allow_fine_
tuning': False, 'organization': '*', 'group': None, 'is_blocking': False}], 'root': 'whisper-1', 'parent': None}, {'id': 'bab
bage', 'object': 'model', 'created': 1649358449, 'owned_by': 'openai', 'permission': [{'id': 'modelperm-49FUp5v084tBB49tC4z8L
PH5', 'object': 'model_permission', 'created': 1669085501, 'allow_create_engine': False, 'allow_sampling': True, 'allow_logpr
obs': True, 'allow_search_indices': False, 'allow_view': True, 'allow_fine_tuning': False, 'organization': '*', 'group': Non
e, 'is_blocking': False}], 'root': 'babbage', 'parent': None}, {'id': 'davinci', 'object': 'model', 'created': 1649359874, 'o
wned_by': 'openai', 'permission': [{'id': 'modelperm-U6ZwlyAd0LyMk4rcMdz33Yc3', 'object': 'model_permission', 'created': 1669
066355, 'allow_create_engine': False, 'allow_sampling': True, 'allow_logprobs': True, 'allow_search_indices': False, 'allow_v
iew': True, 'allow_fine_tuning': False, 'organization': '*', 'group': None, 'is_blocking': False}], 'root': 'davinci', 'paren
t': None}, {'id': 'text-davinci-edit-001', 'object': 'model', 'created': 1649809179, 'owned_by': 'openai', 'permission': [{'i
d': 'modelperm-otmQSS0hmabtVGHI9QB3bct3', 'object': 'model_permission', 'created': 1679934178, 'allow_create_engine': False,
'allow_sampling': True, 'allow_logprobs': True, 'allow_search_indices': False, 'allow_view': True, 'allow_fine_tuning': Fals
e, 'organization': '*', 'group': None, 'is_blocking': False}], 'root': 'text-davinci-edit-001', 'parent': None}, {'id': 'babb
age-code-search-code', 'object': 'model', 'created': 1651172509, 'owned_by': 'openai-dev', 'permission': [{'id': 'modelperm-4
qRnA3Hj8HIJbgo0cGbcmErn', 'object': 'model_permission', 'created': 1669085863, 'allow_create_engine': False, 'allow_samplin
g': True, 'allow_logprobs': True, 'allow_search_indices': True, 'allow_view': True, 'allow_fine_tuning': False, 'organizatio
n': '*', 'group': None, 'is_blocking': False}], 'root': 'babbage-code-search-code', 'parent': None}, {'id': 'text-similarity-

In [22]:
```python
import requests

url = "https://wft-geo-db.p.rapidapi.com/v1/geo/adminDivisions"

headers = {
    "X-RapidAPI-Key": "98c0f8a664mshe2f1abc1e7eb647p1c03d8j",
    "X-RapidAPI-Host": "wft-geo-db.p.rapidapi.com"
}

response = requests.get(url, headers=headers)

print(response.json())
```

{'data': [{'id': 3515514, 'wikiDataId': 'Q4117373', 'name': 'Al Mamzar', 'country': 'United Arab Emirates', 'countryCode': 'AE', 'region': 'Emirate of Dubai', 'regionCode': 'DU', 'regionWdId': 'Q613', 'latitude': 25.309469444, 'longitude': 55.342811111, 'population': 0}, {'id': 3386644, 'wikiDataId': 'Q3694483', 'name': 'Ab Band District', 'country': 'Afghanistan', 'countryCode': 'AF', 'region': 'Ghazni', 'regionCode': 'GHA', 'regionWdId': 'Q180415', 'latitude': 32.983, 'longitude': 67.967, 'population': 0}, {'id': 3339608, 'wikiDataId': 'Q2572213', 'name': 'Ab Kamari', 'country': 'Afghanistan', 'countryCode': 'AF', 'region': 'Badghis', 'regionCode': 'BDG', 'regionWdId': 'Q172052', 'latitude': 34.925, 'longitude': 62.901666666, 'population': 0}, {'id': 3228129, 'wikiDataId': 'Q1650529', 'name': 'Achin', 'country': 'Afghanistan', 'countryCode': 'AF', 'region': 'Nangarhar', 'regionCode': 'NAN', 'regionWdId': 'Q178471', 'latitude': 34.0894, 'longitude': 70.683, 'population': 0}, {'id': 3301438, 'wikiDataId': 'Q2714271', 'name': 'Adraskan District', 'country': 'Afghanistan', 'countryCode': 'AF', 'region': 'Herat Province', 'regionCode': 'HER', 'regionWdId': 'Q182844', 'latitude': 33.705277777, 'longitude': 61.995555555, 'population': 0}], 'links': [{'rel': 'first', 'href': '/v1/geo/adminDivisions?offset=0&limit=5'}, {'rel': 'next', 'href': '/v1/geo/adminDivisions?offset=5&limit=5'}, {'rel': 'last', 'href': '/v1/geo/adminDivisions?offset=62240&limit=5'}], 'metadata': {'currentOffset': 0, 'totalCount': 62242}}

In [35]:
```python
url1 = "https://openai80.p.rapidapi.com/models"
url2 = "https://wft-geo-db.p.rapidapi.com/v1/geo/adminDivisions"

headers = {
    "X-RapidAPI-Key": "98c0f8a664mshe2f1abc1e7eb647p",
    "X-RapidAPI-Host": "openai80.p.rapidapi.com",
    "Accept-Encoding": "identity"
}

response1 = requests.get(url1, headers=headers)
response2 = requests.get(url2, headers=headers)

data1 = response1.json()
data2 = response2.json()
```

In [36]:
```python
# Merge the dictionaries using update()

combined_data = {}

combined_data.update(data1)
combined_data.update(data2)

df = pd.DataFrame(combined_data['data'])
```

In [37]:
```python
df
```

Out[37]:

	id	object	created	owned_by	permission	root	parent
0	whisper-1	model	1677532384	openai-internal	[{'id': 'modelperm-KlsZlfft3Gma8pI6A8rTnyjs', ...	whisper-1	None
1	babbage	model	1649358449	openai	[{'id': 'modelperm-49FUp5v084tBB49tC4z8LPH5', ...	babbage	None
2	davinci	model	1649359874	openai	[{'id': 'modelperm-U6ZwlyAd0LyMk4rcMdz33Yc3', ...	davinci	None
3	text-davinci-edit-001	model	1649809179	openai	[{'id': 'modelperm-otmQSS0hmabtVGHI9QB3bct3', ...	text-davinci-edit-001	None
4	babbage-code-search-code	model	1651172509	openai-dev	[{'id': 'modelperm-4qRnA3Hj8HIJbgo0cGbcmErn', ...	babbage-code-search-code	None
...	...	...	...	...	...	...	...
59	davinci-instruct-beta:2.0.0	model	1629501914	openai	[{'id': 'snapperm-c70U4TBfiOD839xptP5pJzyc', ...	davinci-instruct-beta:2.0.0	None
60	text-ada:001	model	1641949608	system	[{'id': 'snapperm-d2PSnwFG1Yn9of6PvrrhkBcU', ...	text-ada:001	None
61	text-davinci:001	model	1641943966	system	[{'id': 'snapperm-Fj1O3zkKXOQy6AkcfQXRKcWA', ...	text-davinci:001	None
62	text-curie:001	model	1641955047	system	[{'id': 'snapperm-BI9TAT6SCj43JRsUb9CYadsz', ...	text-curie:001	None
63	text-babbage:001	model	1642018370	openai	[{'id': 'snapperm-7oP3WFr9x7qf5xb3eZrVABAH', ...	text-babbage:001	None

64 rows × 7 columns

In [38]:
```python
df.to_csv('GeoDb.csv')
```

In [43]:
```python
import requests

# Define the URL
url = "https://covid-193.p.rapidapi.com/countries"

# Set the headers
headers = {
    "X-RapidAPI-Key": "f6a7fab16cmshfc8d0625aca439ep16f95fj",
    "X-RapidAPI-Host": "covid-193.p.rapidapi.com",
    "Accept-Encoding": "identity"  # Add this header to request uncompressed content
}

# Send the GET request
response = requests.get(url, headers=headers)

# Print the response in JSON format
print(response.json())
```

{'get': 'countries', 'parameters': [], 'errors': [], 'results': 231, 'response': ['Afghanistan', 'Albania', 'Algeria', 'Andorra', 'Angola', 'Anguilla', 'Antigua-and-Barbuda', 'Argentina', 'Armenia', 'Aruba', 'Australia', 'Austria', 'Azerbaijan', 'Bahamas', 'Bahrain', 'Bangladesh', 'Barbados', 'Belarus', 'Belgium', 'Belize', 'Benin', 'Bermuda', 'Bhutan', 'Bolivia', 'Bosnia-and-Herzegovina', 'Botswana', 'Brazil', 'British-Virgin-Islands', 'Brunei', 'Bulgaria', 'Burkina-Faso', 'Burundi', 'Cabo-Verde', 'Cambodia', 'Cameroon', 'Canada', 'CAR', 'Caribbean-Netherlands', 'Cayman-Islands', 'Chad', 'Channel-Islands', 'Chile', 'China', 'Colombia', 'Comoros', 'Congo', 'Cook-Islands', 'Costa-Rica', 'Croatia', 'Cuba', 'Curaçao', 'Cyprus', 'Czechia', 'Denmark', 'Diamond-Princess', 'Djibouti', 'Dominica', 'Dominican-Republic', 'DPRK', 'DRC', 'Ecuador', 'Egypt', 'El-Salvador', 'Equatorial-Guinea', 'Eritrea', 'Estonia', 'Eswatini', 'Ethiopia', 'Faeroe-Islands', 'Falkland-Islands', 'Fiji', 'Finland', 'France', 'French-Guiana', 'French-Polynesia', 'Gabon', 'Gambia', 'Georgia', 'Germany', 'Ghana', 'Gibraltar', 'Greece', 'Greenland', 'Grenada', 'Guadeloupe', 'Guatemala', 'Guinea', 'Guinea-Bissau', 'Guyana', 'Haiti', 'Honduras', 'Hong-Kong', 'Hungary', 'Iceland', 'India', 'Indonesia', 'Iran', 'Iraq', 'Ireland', 'Isle-of-Man', 'Israel', 'Italy', 'Ivory-Coast', 'Jamaica', 'Japan', 'Jordan', 'Kazakhstan', 'Kenya', 'Kiribati', 'Kuwait', 'Kyrgyzstan', 'Laos', 'Latvia', 'Lebanon', 'Lesotho', 'Liberia', 'Libya', 'Liechtenstein', 'Lithuania', 'Luxembourg', 'Macao', 'Madagascar', 'Malawi', 'Malaysia', 'Maldives', 'Mali', 'Malta', 'Marshall-Islands', 'Martinique', 'Mauritania', 'Mauritius', 'Mayotte', 'Mexico', 'Micronesia', 'Moldova', 'Monaco', 'Mongolia', 'Montenegro', 'Montserrat', 'Morocco', 'Mozambique', 'MS-Zaandam', 'Myanmar', 'Namibia', 'Nauru', 'Nepal', 'Netherlands', 'New-Caledonia', 'New-Zealand', 'Nicaragua', 'Niger', 'Nigeria', 'Niue', 'North-Macedonia', 'Norway', 'Oman', 'Pakistan', 'Palau', 'Palestine', 'Panama', 'Papua-New-Guinea', 'Paraguay', 'Peru', 'Philippines', 'Poland', 'Portugal', 'Qatar', 'Réunion', 'Romania', 'Russia', 'Rwanda', 'S-Korea', 'Saint-Helena', 'Saint-Kitts-and-Nevis', 'Saint-Lucia', 'Saint-Martin', 'Saint-Pierre-Miquelon', 'Samoa', 'San-Marino', 'Sao-Tome-and-Principe', 'Saudi-Arabia', 'Senegal', 'Serbia', 'Seychelles', 'Sierra-Leone', 'Singapore', 'Sint-Maarten', 'Slovakia', 'Slovenia', 'Solomon-Islands', 'Somalia', 'South-Africa', 'South-Sudan', 'Spain', 'Sri-Lanka', 'St-Barth', 'St-Vincent-Grenadines', 'Sudan', 'Suriname', 'Sweden', 'Switzerland', 'Syria', 'Taiwan', 'Tajikistan', 'Tanzania', 'Thailand', 'Timor-Leste', 'Togo', 'Tokelau', 'Tonga', 'Trinidad-and-Tobago', 'Tunisia', 'Turkey', 'Turks-and-Caicos', 'Tuvalu', 'UAE', 'Uganda', 'UK', 'Ukraine', 'Uruguay', 'USA', 'Uzbekistan', 'Vanuatu', 'Vatican-City', 'Venezuela', 'Vietnam', 'Wallis-and-Futuna', 'Western-Sahara', 'Yemen', 'Zambia', 'Zimbabwe']}

In [61]:
```python
import requests

url = "https://linkedin-profiles1.p.rapidapi.com/extract"

querystring = {"url":"https://www.linkedin.com/in/williamhgates","html":"1"}

headers = {
    "X-RapidAPI-Key": "98c0f8a664mshe2f1abc1e7eb647p1c03d8j",
    "X-RapidAPI-Host": "linkedin-profiles1.p.rapidapi.com"
}

response = requests.get(url, headers=headers, params=querystring)

print(response.json())['@context']['author']
```

{'graph': {'@context': 'http://schema.org', '@graph': [{'@type': 'Article', 'name': '5 things I wish I heard at the graduation I never had', 'author': {'@type': 'Person', 'name': 'Bill Gates', 'url': 'https://www.linkedin.com/in/williamhgates'}, 'articleBody': '<p>Throughout my career, I've been lucky to give two commencement speeches: one to Harvard—the alma mater I never graduated from—in 2007, and another to Stanford in 2014. This weekend, I delivered my third to the forestry and engineering graduates of Northern Arizona University. (You can read more about what drew me to NAU here.)</p><p>The class of 2023 is no ordinary group of graduates. Before most of them completed their first year of college, a once-in-a-generation pandemic came along and changed life—and learning—as we knew it. It took resilience, grit, and a whole lot of ingenuity for them to cross this finish line. So I was excited to congratulate them before they begin the next stages of their lives, and share some wisdom I've picked up in the decades since I left my own college campus.</p><h2>The advice I shared with the class of 2023 is advice I could have used myself.</h2><p>Some of you might know that I never made it to my own graduation. I left after three semesters to start Microsoft. So, what does a college dropout know about graduation? Not much personally, to be honest.</p><p>As I prepared for today, I thought about how you, as new graduates, can have the biggest impact on the world with the education you received here. That led me to thinking about the graduation I never had, the commencement speech I never heard, and the advice I wasn't given on a day just like this one.</p><p>That is what I want to share with you this afternoon: The five things I wish I was told at the graduation I never attended.</p><h3>The first thing is, your life isn't a one-act play.</h3><p>You probably feel a lot of pressure right now to make the right decisions about your career. It might feel like those decisions are permanent. They're not. What you do tomorrow—or for the next ten years—does not have to be what you do forever.</p><p>When I left school, I thought I would work at Microsoft for the

In [66]:
```python
df = pd.DataFrame(response.json())['raw']
```

- Need More Pre-Processing. But this is How we can Fetch Data from API'S