

# Fetching Reviews Using Google Places API (Nearby Search)

## Overview

This notebook demonstrates how to fetch nearby places (e.g., restaurants, cafes) using the **Google Places API Nearby Search** endpoint. This API allows you to search for places in a specific **radius** around a given **latitude** and **longitude**.

The steps include:

1. Sending a **POST** request to the `places:searchNearby` endpoint.
2. Retrieving nearby places based on the coordinates.
3. Fetching details such as **place name**, **place ID**, **place reviews**.

### API Request:

To use the **Nearby Search API**, we make a **POST** request with the following parameters:

- `locationRestriction.circle.center` : The **latitude** and **longitude** of the center point for the search.
- `locationRestriction.circle.radius` : The **radius** (in meters) around the center point for the search.
- `includedTypes` : The type of places you're interested in (e.g., restaurant, cafe).
- `key` : **Google API Key**.

```
curl -X POST -d '{
  "includedTypes": ["restaurant"],
  "maxResultCount": 10,
  "locationRestriction": {
    "circle": {
      "center": {
        "latitude": 40.6292089,
        "longitude": -8.6477953
      },
      "radius": 500.0
    }
  }
}' \
-H 'Content-Type: application/json' \
-H "X-Goog-Api-Key: YOUR_GOOGLE_API_KEY" \
-H "X-Goog-FieldMask:
  places.displayName,places.id,places.reviews,places.location,places.r
\"
'https://places.googleapis.com/v1/places:searchNearby'
```

### API Response:

```
In [2]: {  
    "places": [  
        {  
            "id": "ChIJJoQ2tW6iiIw0RT80buIli6Kk",  
            "location": {  
                "latitude": 40.632467,  
                "longitude": -8.650501  
            },  
            "displayName": {  
                "text": "McDonald's",  
                "languageCode": "en"  
            },  
            "rating": 4.3,  
            "reviews": [  
                {  
                    "name": "places/ChIJJoQ2tW6iiIw0RT80buIli6Kk/reviews/Ci9DQULRQUN",  
                    "relativePublishTimeDescription": "2 months ago",  
                    "rating": 5,  
                    "text": {  
                        "text": "Free parking underground. Spacious. Nice staff (taki",  
                        "languageCode": "en"  
                    },  
                    "originalText": {  
                        "text": "Free parking underground. Spacious. Nice staff (taki",  
                        "languageCode": "en"  
                    },  
                    "authorAttribution": {  
                        "displayName": "Camille Phan",  
                        "uri": "https://www.google.com/maps/contrib/10497386024940947",  
                        "photoUri": "https://lh3.googleusercontent.com/a-/ALV-UjVGlnZ",  
                    },  
                    "publishTime": "2025-08-20T15:35:19.443443693Z",  
                    "flagContentUri": "https://www.google.com/local/review/rap/repo",  
                    "googleMapsUri": "https://www.google.com/maps/reviews/data=!4m6",  
                },  
                {  
                    "name": "places/ChIJJoQ2tW6iiIw0RT80buIli6Kk/reviews/Ci9DQULRQUN",  
                    "relativePublishTimeDescription": "a month ago",  
                    "rating": 2,  
                    "text": {  
                        "text": "According to the internet there is gluten-free burge",  
                        "languageCode": "en"  
                    },  
                    "originalText": {  
                        "text": "According to the internet there is gluten-free burge",  
                        "languageCode": "en"  
                    },  
                    "authorAttribution": {  
                        "displayName": "Nico Vogel",  
                        "uri": "https://www.google.com/maps/contrib/11806040053964001",  
                        "photoUri": "https://lh3.googleusercontent.com/a-/ALV-UjW6h_u",  
                    },  
                    "publishTime": "2025-09-27T14:41:54.595874609Z",  
                    "flagContentUri": "https://www.google.com/local/review/rap/repo",  
                    "googleMapsUri": "https://www.google.com/maps/reviews/data=!4m6",  
                },  
                {  
                    "name": "places/ChIJJoQ2tW6iiIw0RT80buIli6Kk/reviews/ChZDSUhNMG9",  
                    "relativePublishTimeDescription": "a year ago",  
                    "rating": 5,
```

```
"text": {
    "text": "Amazing how different and then similar it was to U.S",
    "languageCode": "en"
},
"originalText": {
    "text": "Amazing how different and then similar it was to U.S",
    "languageCode": "en"
},
"authorAttribution": {
    "displayName": "Wendy Cooper",
    "uri": "https://www.google.com/maps/contrib/11654737331251814",
    "photoUri": "https://lh3.googleusercontent.com/a-/ALV-UjV5-rK"
},
"publishTime": "2024-04-24T12:24:26.938064Z",
"flagContentUri": "https://www.google.com/local/review/rap/repo",
"googleMapsUri": "https://www.google.com/maps/reviews/data=!4m6"
},
],
},
{
    "id": "ChIJ9UZ3JqyjIw0RDGM_7hz9Tgs",
    "location": {
        "latitude": 40.626367599999995,
        "longitude": -8.6473549
    },
    "displayName": {
        "text": "Maria Pitanga Açaiteria - Aveiro",
        "languageCode": "pt-PT"
    },
    "rating": 4.5,
    "reviews": [
        {
            "name": "places/ChIJ9UZ3JqyjIw0RDGM_7hz9Tgs/reviews/ChZDSUhNM",
            "relativePublishTimeDescription": "9 months ago",
            "rating": 5,
            "text": {
                "text": "Good self-service experience, good ingredients, ve",
                "languageCode": "en"
            },
            "originalText": {
                "text": "Good self-service experience, good ingredients, ve",
                "languageCode": "en"
            },
            "authorAttribution": {
                "displayName": "Andre Jordão",
                "uri": "https://www.google.com/maps/contrib/107684324651277",
                "photoUri": "https://lh3.googleusercontent.com/a/ACg8ocJXiM"
            },
            "publishTime": "2025-01-25T16:22:52.962106Z",
            "flagContentUri": "https://www.google.com/local/review/rap/re",
            "googleMapsUri": "https://www.google.com/maps/reviews/data=!4
        },
        {
            "name": "places/ChIJ9UZ3JqyjIw0RDGM_7hz9Tgs/reviews/ChZDSUhNMG9nS",
            "relativePublishTimeDescription": "12 months ago",
            "rating": 5,
            "text": {
                "text": "Amazing and cheerful staff! I loved the açai even if i",
                "languageCode": "en"
            }
        }
    ]
}
```

```
        "originalText": {
            "text": "Amazing and cheerful staff! I loved the açai even if i
            "languageCode": "en"
        },
        "authorAttribution": {
            "displayName": "Güven Kimenç",
            "uri": "https://www.google.com/maps/contrib/1159711836513334838
            "photoUri": "https://lh3.googleusercontent.com/a-/ALV-UjV8Y21P8
        },
        "publishTime": "2024-11-08T23:09:06.275827Z",
        "flagContentUri": "https://www.google.com/local/review/rap/report
        "googleMapsUri": "https://www.google.com/maps/reviews/data=!4m6!1
    },
    {
        "name": "places/ChIJ9UZ3JqyjIw0RDGM_7hz9Tgs/reviews/ChZDSUhNMG9nS
        "relativePublishTimeDescription": "a year ago",
        "rating": 5,
        "text": {
            "text": "Excellent team! Original açai from Brazil, with anothe
            "languageCode": "en"
        },
        "originalText": {
            "text": "Excellent team! Original açai from Brazil, with anothe
            "languageCode": "en"
        },
        "authorAttribution": {
            "displayName": "Jose Carlos Germino",
            "uri": "https://www.google.com/maps/contrib/1029157452416149360
            "photoUri": "https://lh3.googleusercontent.com/a-/ALV-UjUi8eLoh
        },
        "publishTime": "2024-06-18T14:41:47.519274Z",
        "flagContentUri": "https://www.google.com/local/review/rap/report
        "googleMapsUri": "https://www.google.com/maps/reviews/data=!4m6!1
    }
]
}
]
```

```
Out[2]: {'places': [{}{'id': 'ChIJoQ2tW6iiIw0RT80buIli6Kk', 'location': {'latitude': 40.632467, 'longitude': -8.650501}, 'displayName': {'text': "McDonald's", 'languageCode': 'en'}, 'rating': 4.3, 'reviews': [{}{'name': 'places/ChIJoQ2tW6iiIw0RT80buIli6Kk/reviews/Ci9DQuLRQUNvZENodHljRjlvT25oWVZWm9jSFkwYkU5SE9XcDFNVmczUlMxa1JGRRAB', 'relativePublishTimeDescription': '2 months ago', 'rating': 5, 'text': {'text': 'Free parking underground. Spacious. Nice staff (taking time looking for a different Happy Meal toy for my son).', 'languageCode': 'en'}, 'originalText': {'text': 'Free parking underground. Spacious. Nice staff (taking time looking for a different Happy Meal toy for my son).', 'languageCode': 'en'}, 'authorAttribution': {'displayName': 'Camille Phan', 'uri': 'https://www.google.com/maps/contrib/104973860249409470552/reviews', 'photoUri': 'https://lh3.googleusercontent.com/a-/ALV-UjVGlnZUt5z6fG9c-F0pYi0gv35AtZATVrWAZYwgMuzg9x4QB_vS=s128-c0x00000000-cc-rp-mo-ba3'}, 'publishTime': '2025-08-20T15:35:19.443443693Z', 'flagContentUri': 'https://www.google.com/local/review/rap/report?postId=Ci9DQuLRQUNvZENodHljRjlvT25oWVZWm9jSFkwYkU5SE9XcDFNVmczUlMxa1JGRRAB&d=17924085&t=1', 'googleMapsUri': 'https://www.google.com/maps/reviews/data=!4m6!14m5!1m4!2m3!1sCi9DQuLRQUNvZENodHljRjlvT25oWVZWm9jSFkwYkU5SE9XcDFNVmczUlMxa1JGRRAB!2m1!1s0xd23a2a85bad0da1:0xa9e86289b89bc34f'}, {}{'name': 'places/ChIJoQ2tW6iiIw0RT80buIli6Kk/reviews/Ci9DQuLRQUNvZENodHljRjlvT2tGWFRtazRlbXBpUVZNdGNtSnFXbTlpV2s1NWEzYxAB', 'relativePublishTimeDescription': 'a month ago', 'rating': 2, 'text': {'text': "According to the internet there is gluten-free burgers but not at this MC Donald's", 'languageCode': 'en'}, 'originalText': {'text': "According to the internet there is gluten-free burgers but not at this MC Donald's", 'languageCode': 'en'}, 'authorAttribution': {'displayName': 'Nico Vogel', 'uri': 'https://www.google.com/maps/contrib/118060400539640015713/reviews', 'photoUri': 'https://lh3.googleusercontent.com/a-/ALV-UjW6h_uhi0EFGooVYHq1dnHfjIuxBAsGbR3m1d0Q3QGf68frXsPp9Q=s128-c0x00000000-cc-rp-mo-ba4'}, 'publishTime': '2025-09-27T14:41:54.595874609Z', 'flagContentUri': 'https://www.google.com/local/review/rap/report?postId=Ci9DQuLRQUNvZENodHljRjlvT2tGWFRtazRlbXBpUVZNdGNtSnFXbTlpV2s1NWEzYxAB&d=17924085&t=1', 'googleMapsUri': 'https://www.google.com/maps/reviews/data=!4m6!14m5!1m4!2m3!1sCi9DQuLRQUNvZENodHljRjlvT2tGWFRtazRlbXBpUVZNdGNtSnFXbTlpV2s1NWEzYxAB!2m1!1s0xd23a2a85bad0da1:0xa9e86289b89bc34f'}, {}{'name': 'places/ChIJoQ2tW6iiIw0RT80buIli6Kk/reviews/ChZDSUhNMG9nS0VJQ0FnSUNqamRXWEdREAE', 'relativePublishTimeDescription': 'a year ago', 'rating': 5, 'text': {'text': 'Amazing how different and then similar it was to U.S. Different: lots of healthy menu options, beautiful patio, bakery counter, recyclable silverware. Same: was still fast food with traditional menu items.', 'languageCode': 'en'}, 'originalText': {'text': 'Amazing how different and then similar it
```

was to U.S. Different: lots of healthy menu options, beautiful patio, bakery counter, recyclable silverware. Same: was still fast food with traditional menu items.',  
    'languageCode': 'en'},  
    'authorAttribution': {'displayName': 'Wendy Cooper',  
        'uri': 'https://www.google.com/maps/contrib/116547373312518140582/reviews',  
        'photoUri': 'https://lh3.googleusercontent.com/a-/ALV-UjV5-rKLybR142I\_x\_tp24SyofU2K\_13dtnPWoelocxgEwioI0Xq=s128-c0x00000000-cc-rp-mo-ba3'},  
        'publishTime': '2024-04-24T12:24:26.938064Z',  
        'flagContentUri': 'https://www.google.com/local/review/rap/report?postId=ChZDSUhNMG9nS0VJQ0FnSUNqamRXWEdREAE&d=17924085&t=1',  
        'googleMapsUri': 'https://www.google.com/maps/reviews/data=!4m6!14m5!1m4!2m3!1sChZDSUhNMG9nS0VJQ0FnSUNqamRXWEdREAE!2m1!1s0xd23a2a85bad0da1:0xa9e86289b89bc34f'}],  
    {'id': 'ChIJ9UZ3JqyjIw0RDGM\_7hz9Tgs',  
        'location': {'latitude': 40.626367599999995, 'longitude': -8.6473549},  
        'displayName': {'text': 'Maria Pitanga Açaíteria - Aveiro',  
            'languageCode': 'pt-PT'},  
        'rating': 4.5,  
        'reviews': [{name: 'places/ChIJ9UZ3JqyjIw0RDGM\_7hz9Tgs/reviews/ChZDSUhNMG9nS0VJQ0FnSURfeGFTNkh3EAE',  
            'relativePublishTimeDescription': '9 months ago',  
            'rating': 5,  
            'text': {'text': 'Good self-service experience, good ingredients, very nice staff. A bit expensive though.',  
                'languageCode': 'en'},  
            'originalText': {'text': 'Good self-service experience, good ingredients, very nice staff. A bit expensive though.',  
                'languageCode': 'en'},  
            'authorAttribution': {'displayName': 'Andre Jordão',  
                'uri': 'https://www.google.com/maps/contrib/107684324651277383514/reviews',  
                'photoUri': 'https://lh3.googleusercontent.com/a/ACg8ocJXiMEgoQH0v2epIZMb8QPdFC4614mI0qXtay2UQqSABDIr=s128-c0x00000000-cc-rp-mo-ba4'},  
                'publishTime': '2025-01-25T16:22:52.962106Z',  
                'flagContentUri': 'https://www.google.com/local/review/rap/report?postId=ChZDSUhNMG9nS0VJQ0FnSURfeGFTNkh3EAE&d=17924085&t=1',  
                'googleMapsUri': 'https://www.google.com/maps/reviews/data=!4m6!14m5!1m4!2m3!1sChZDSUhNMG9nS0VJQ0FnSURfeGFTNkh3EAE!2m1!1s0xd23a3ac267746f5:0xb4efd1cee3f630c'},  
            {name: 'places/ChIJ9UZ3JqyjIw0RDGM\_7hz9Tgs/reviews/ChZDSUhNMG9nS0VJQ0FnSUMzMDduRFN3EAE',  
                'relativePublishTimeDescription': '12 months ago',  
                'rating': 5,  
                'text': {'text': 'Amazing and cheerful staff! I loved the açaí even if it was my first try!',  
                    'languageCode': 'en'},  
                'originalText': {'text': 'Amazing and cheerful staff! I loved the açaí even if it was my first try!',  
                    'languageCode': 'en'},  
                'authorAttribution': {'displayName': 'Güven Kimençe',  
                    'uri': 'https://www.google.com/maps/contrib/115971183651333483808/reviews',  
                    'photoUri': 'https://lh3.googleusercontent.com/a-/ALV-UjV8Y21P8aXynUd9AxqSut2qDIclZUmRzm8vtLgTC6kL6gvi30bk=s128-c0x00000000-cc-rp-mo-ba4'},  
                    'publishTime': '2024-11-08T23:09:06.275827Z',  
                'languageCode': 'tr-TR'}}]}]

```

    'flagContentUri': 'https://www.google.com/local/review/rap/report?postId=ChZDSUhNMG9nS0VJQ0FnSUMzMDDuRFN3EAE&d=17924085&t=1',
    'googleMapsUri': 'https://www.google.com/maps/reviews/data=!4m6!14m5!1m4!2m3!1sChZDSUhNMG9nS0VJQ0FnSUMzMDDuRFN3EAE!2m1!1s0xd23a3ac267746f5:0xb4efd1cee3f630c'},
    {'name': 'places/ChiJ9UZ3JqyjIw0RDGM_7hz9Tgs/reviews/ChZDSUhNMG9nS0VJQ0FnSUNMeHRDRVNRREAE',
     'relativePublishTimeDescription': 'a year ago',
     'rating': 5,
     'text': {'text': 'Excellent team! Original açai from Brazil, with another options to the people. I strongly recommend!!!!',
              'languageCode': 'en'},
     'originalText': {'text': 'Excellent team! Original açai from Brazil, with another options to the people. I strongly recommend!!!!',
                      'languageCode': 'en'},
     'authorAttribution': {'displayName': 'Jose Carlos Germino',
                           'uri': 'https://www.google.com/maps/contrib/102915745241614936078/reviews',
                           'photoUri': 'https://lh3.googleusercontent.com/a-/ALV-UjUi8eLohkToYDsLCwmMptYaoh9hxzNzj07vgbeMpC01Cr8U5Rxp=s128-c0x00000000-cc-rp-mo-ba3'},
     'publishTime': '2024-06-18T14:41:47.519274Z',
     'flagContentUri': 'https://www.google.com/local/review/rap/report?postId=ChZDSUhNMG9nS0VJQ0FnSUNMeHRDRVNRREAE&d=17924085&t=1',
     'googleMapsUri': 'https://www.google.com/maps/reviews/data=!4m6!14m5!1m4!2m3!1sChZDSUhNMG9nS0VJQ0FnSUNMeHRDRVNRREAE!2m1!1s0xd23a3ac267746f5:0xb4efd1cee3f630c'}}]}

```

The API returns a list of nearby places that match the search criteria. The response includes:

- **id** : The unique **Place ID**.
- **location** : Location of the place.
- **displayName** : The name of the place.
- **reviews** : Google Reviews of the place.

## Python example: fetch Place Details and load reviews into a DataFrame

It shows how to call the Place Details endpoint from Python and convert the returned reviews into a DataFrame for downstream analysis.

In [3]:

```

import requests
import time
import os
import pandas as pd

GOOGLE_API_KEY = os.getenv('GOOGLE_API_KEY', 'AIzaSyAwme_k4xStLv2_bLFAckn
SLEEP_BETWEEN_REQUESTS = 0.25 # seconds to avoid hitting rate limits
RADIUS_METERS = 500 # Search within a 500-meter radius by default
MAX_PLACES_PER_RUN = 10 # Number of places to query

def places_search_nearby(lat, lon, radius=500, types=["restaurant"]):
    """
    Use Google Places Nearby Search to search for places within a given radius.
    Returns the places found and the API call status.
    """

```

```
"""
url = "https://places.googleapis.com/v1/places:searchNearby"
payload = {
    "locationRestriction": {
        "circle": {
            "center": {
                "latitude": lat,
                "longitude": lon
            },
            "radius": radius
        }
    },
    "includedTypes": types,
    "maxResultCount": (MAX_PLACES_PER_RUN or 10),
}
params = { 'key': GOOGLE_API_KEY }
headers = {
    "X-Goog-FieldMask": "places.displayName,places.id,places.reviews",
    "X-Goog-Api-Key": GOOGLE_API_KEY,
    "Content-Type": "application/json",
}

# Send POST request to the Nearby Search API
try:
    response = requests.post(url, params=params, json=payload, headers=headers)
    time.sleep(SLEEP_BETWEEN_REQUESTS)
    if response.status_code != 200:
        print('Nearby Search HTTP', response.status_code)
        try:
            print('Response body:', response.json())
        except Exception:
            print('Response text:', response.text)
            response.raise_for_status()
    except requests.exceptions.RequestException as e:
        print(f"Error during API request: {e}")
        return None, "ERROR"

    data = response.json()
    places = data.get("places", [])
    return places, "OK" if places else "ZERO_RESULTS"

def process_reviews(reviews):
    """
    Extract the reviews from the response and format them into a list of
    """
    reviews_data = []
    for review in reviews:
        reviews_data.append({
            "author_name": review.get("authorAttribution", {}).get("displ",
            "rating": review.get("rating"),
            "review_text": review.get("text", {}).get("text", ""),
            "publish_time": review.get("publishTime"),
        })
    return reviews_data

def get_reviews_for_nearby_places(lat, lon, radius=500):
    """
    Fetch nearby places and their reviews within the specified radius.
    Returns a list of reviews and the status of the operation.
    """

```

```
places, status = places_search_nearby(lat, lon, radius)
if not places:
    return [], f"No nearby places found. Status: {status}"

all_reviews = []
for place in places:
    place_id = place.get("id")
    place_name = place.get("displayName", {}).get("text", "")
    place_location = place.get("location", {})
    place_rating = place.get("rating")
    reviews = place.get("reviews", [])
    processed_reviews = process_reviews(reviews)

    for review in processed_reviews:
        review["place_name"] = place_name
        review["place_id"] = place_id
        review["place_location"] = place_location
        review["place_rating"] = place_rating
    all_reviews.append(review)

return all_reviews, "OK"

def main():
    # Example coordinates (latitude, longitude) for the center point
    latitude = 40.6292089
    longitude = -8.6477953

    # Fetch reviews for nearby places
    reviews_data, status = get_reviews_for_nearby_places(latitude, longit

    if not reviews_data:
        print(f"No reviews found or failed to fetch data. Status: {status}
        return

    # Create a DataFrame to store the reviews data
    df = pd.DataFrame(reviews_data)

    # Results
    print(f"Fetched {len(df)} reviews for nearby places.")
    print(df.head())

    # Save the DataFrame to a CSV file
    df.to_csv("../outputs/nearby_reviews.csv", index=False)
    print(f"Saved reviews data to 'nearby_reviews.csv'.")

if __name__ == "__main__":
    main()
```

Fetched 50 reviews for nearby places.

	author_name	rating	review_text	place_id
0	Camille Phan	5	Free parking underground. Spacious. Nice staff...	ChIJoQ2tW6iiIw0RT80buIli6Kk
1	Nico Vogel	2	According to the internet there is gluten-free...	ChIJoQ2tW6iiIw0RT80buIli6Kk
2	Wendy Cooper	5	Amazing how different and then similar it was ...	ChIJoQ2tW6iiIw0RT80buIli6Kk
3	Daniela Da Silva	5	It's just a McDonald's, but I like the aesthet...	ChIJoQ2tW6iiIw0RT80buIli6Kk
4	Çiğdem AKRAY	5	Beautiful fasfood place, service is so nice, p...	ChIJoQ2tW6iiIw0RT80buIli6Kk
\	publish_time	place_name	place_location	place_rating
0	2025-08-20T15:35:19.443443693Z	McDonald's	{'latitude': 40.632467, 'longitude': -8.650501}	4.3
1	2025-09-27T14:41:54.595874609Z	McDonald's	{'latitude': 40.632467, 'longitude': -8.650501}	4.3
2	2024-04-24T12:24:26.938064Z	McDonald's	{'latitude': 40.632467, 'longitude': -8.650501}	4.3
3	2024-04-10T01:43:04.020798Z	McDonald's	{'latitude': 40.632467, 'longitude': -8.650501}	4.3
4	2025-08-02T20:45:32.983595881Z	McDonald's	{'latitude': 40.632467, 'longitude': -8.650501}	4.3

Saved reviews data to 'nearby\_reviews.csv'.