

```

In [1]: 1 from geopy.geocoders import GoogleV3
        2 import pandas as pd
        3
        4 # Load the dataset
        5 df = pd.read_csv('NYC_Property_Sales_Data.csv')
        6
        7 # Define your Google Maps Geocoding API key
        8 api_key = 'AIzaSyCJhORo-D11w1XYyQUhuwtiLxGpKBa2rIw'
        9
       10 # Initialize the Google Maps geocoder
       11 geolocator = GoogleV3(api_key=api_key)
       12
       13 # Function to geocode addresses and return Latitude and Longitude coordinates
       14 def geocode_address(address):
       15     location = geolocator.geocode(address)
       16     if location:
       17         return location.latitude, location.longitude
       18     else:
       19         return None, None
       20
       21 # Geocode addresses and fill missing Latitude and Longitude values
       22 for index, row in df.iterrows():
       23     if pd.isnull(row['Latitude']) or pd.isnull(row['Longitude']):
       24         address = row['ADDRESS']
       25         latitude, longitude = geocode_address(address)
       26         df.at[index, 'Latitude'] = latitude
       27         df.at[index, 'Longitude'] = longitude
       28
       29 # Save the updated DataFrame
       30 df.to_csv('NYC_Property_Sales_Data_Geocoded.csv', index=False)
       31

```

C:\Users\prabh\AppData\Local\Temp\ipykernel_18016\2294164941.py:5: DtypeWarning: Columns (0,28,30) have mixed types. Specify dtype option on import or set low_memory=False.

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df = pd.read_csv('NYC_Property_Sales_Data.csv')
```

```

In [21]: 1 import pandas as pd
        2
        3 # Load the dataset
        4 df = pd.read_csv('NYC_Property_Sales_Data_Geocoded.csv', low_memory=False)

```