Pollen’s Profiling: Automated Classification of Pollen Grains

ZIP CODE IN PYTHON

from geopy.geocoders import Nominatim

def get\_zip\_code(lat, lon):

geolocator = Nominatim(user\_agent="pollen\_profiler")

location = geolocator.reverse((lat, lon), exactly\_one=True)

address = location.raw['address']

return address.get('postcode')

# Example:

zip\_code = get\_zip\_code(40.748817, -73.985428) # Near Empire State Building

print("ZIP Code:", zip\_code)

from geopy.geocoders import Nominatim

def get\_coordinates(zip\_code):

geolocator = Nominatim(user\_agent="pollen\_profiler")

location = geolocator.geocode({"postalcode": zip\_code, "country": "USA"})

return (location.latitude, location.longitude)

# Example:

coords = get\_coordinates("10001")

print("Coordinates:", coords)

import pandas as pd

df = pd.read\_csv("uszips.csv")

print(df.head())

pip install geopy geocoder panda