import pandas as pd

protest\_df = pd.read\_excel(r"C:\Ritesh\Tableau\Viz of the Week\Viz2021W8\protests map.xlsx")

lats=protest\_df['Latitude'].to\_list()

lons=protest\_df['Longitude'].to\_list()

# Creating a zip with latitudes and longitudes

coords=list(zip(lats,lons))

from geopy.geocoders import Nominatim

geolocator = Nominatim(user\_agent="geoapiExercises")

full\_address=[]

#location = geolocator.reverse(coords[1],language='en')

#location.raw['address']

#stat=location.raw['address']['state']

#stat

for i in range(len(coords)):

location = geolocator.reverse(coords[i],language='en',timeout=None)

location=location.raw['address']

full\_address.append(location)

#Creating dataframe with all the addresses

addres=pd.DataFrame(data=full\_address)

addres['state'].replace(" Voivodeship","",inplace=True,regex=True)

addres=addres[['state','country']]

protest\_df=pd.concat([protest\_df,addres],axis=1)

print(protest\_df)