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import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from PIL import Image, ImageDraw
Data_path = 'data.csv'
Data = pd.read_csv(data_path, names=['LATITUDE', 'LONGITUDE'], sep=',')
Gps_data = tuple(zip(data['LATITUDE'].values, data['LONGITUDE'].values))
Image = Image.open('map.png', 'r') # Load map image.
Img_points = []
for d in gps_data:
  X1, y1 = scale_to_img(d, (image.size[0], image.size[1])) # Convert GPS coordinates to image
coordinates.
  Img_points.append((x1, y1))
Draw = ImageDraw.Draw(image)
Draw.line(img_points, fill=(255, 0, 0), width=2) # Draw converted records to the map image.
Image.save('resultMap.png')
X_ticks = map(lambda x: round(x, 4), np.linspace(lon1, lon2, num=7))
Y_ticks = map(lambda x: round(x, 4), np.linspace(lat1, lat2, num=8))
Y_ticks = sorted(y_ticks, reverse=True) # y ticks must be reversed due to conversion to image
coordinates.
Fig, axis1 = plt.subplots(figsize=(10, 10))
Axis1.imshow(plt.imread('resultMap.png')) # Load the image to matplotlib plot.
Axis1.set_xlabel('Longitude')
Axis1.set_ylabel('Latitude')
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Axis1.set_xticklabels(x_ticks)

Axis1.set_yticklabels(y_ticks)

Axis1.grid()

Plt.show()